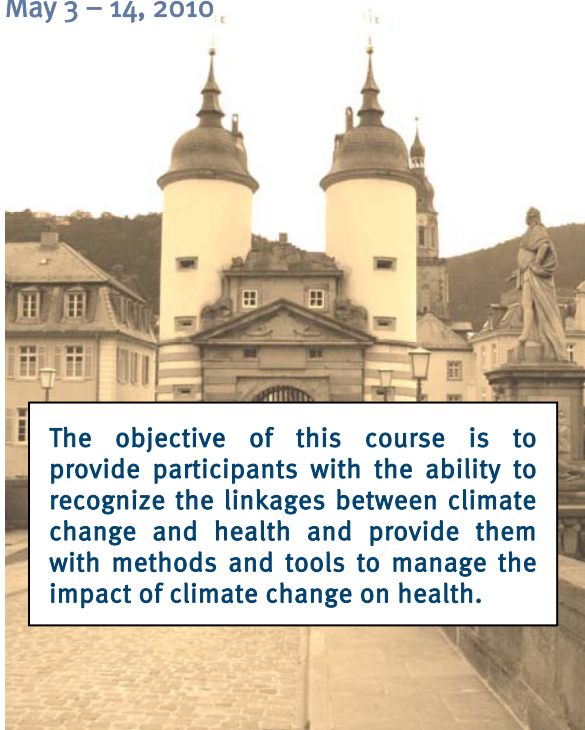




## Climate Change and Health: Impact & Adaptation Policies

May 3 – 14, 2010



The objective of this course is to provide participants with the ability to recognize the linkages between climate change and health and provide them with methods and tools to manage the impact of climate change on health.

### Content Overview

1. Physico-chemical basis of anthropogenic climate change and its dynamics;
2. Environmental impact of climate change
3. Climate-sensitive diseases
4. Health outcome linked to climate change and environmental impact
5. Methods for assessing health impact
6. Mitigation and adaptation strategies
7. Policies for mitigation and adaptation and their evaluation

### Objectives

Climate change has become a reality which the health community is only slowly taking into account. The potentially far-reaching adverse health effects, sometimes of irreversible nature, need to be understood by researchers, practitioners and public health institutions in order to develop and implement practices and policies to counter them. In low- and middle-income countries especially, the issues are poorly studied and understood.

The objective of this course is to provide participants with the ability to recognize the linkages between climate change and health and provide them with methods and tools to manage the impact of climate change on health. Examples will be drawn, whenever possible, from both developed and developing countries and cases studies will serve as a basis for learning.

At the end of the course participants will be able to:

#### 1. Discuss and describe the physico-chemical basis of anthropogenic climate change and its dynamics;

Specific objectives:

- 1.1 explain the mechanisms of climate change
- 1.2. explain the links between climate change and environmental impact
- 1.3. illustrate the impact of climate change with regional examples

#### 2. Describe the links between climate change and health impacts;

Specific objectives:

- 2.1 explain the concept of climate-sensitive diseases
- 2.2 describe health outcomes linked to climate effects

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2.3 identify mechanisms linking environmental conditions and health

#### 3. Recognize effective methods to assess health impact;

Specific objectives:

3.1 review epidemiological methods evaluating health condition

3.2 identify methodologies assessing health impact

#### 4. Plan, implement, and evaluate mitigation and adaptation policies

Specific objectives:

4.1 differentiate the concepts of mitigation (equivalent to primary prevention) and adaptation (equivalent to secondary prevention)

4.2 use mitigation and adaptation policies to derive possible alternatives

4.3 analyze mitigation and adaptation policies and evaluate their effectiveness

5. Apply the concepts, methods and tools within a country or region in the form of a case study (synthesis).

### Target Group

Public health professionals, project planners & managers, paramedical staff, social scientists, tropEd students, etc. The course is held in English. Fluency in English (Reading, Speaking, Writing) required for the course.

### Assessment Procedures

Course participants are expected to attend teaching sessions and actively participate in class discussions and group work.

Assessment of participants' achievement of the learning objectives will be determined as follows:

- 50% individual final written exam composed of 2 or 3 short essay questions
- 30% group written report of case study (3 pages)
- 20% group oral presentation of case study

## Learning Methods

The course is composed of individual teaching units (50%), facilitated group work (30%) and self-directed learning (20%).

The group work will include case studies at the regional or national level that focus on specific regions of interest selected by the participants. This facilitates the participants' achievement of the learning objectives and demonstrates the applicability of the concepts and methods to specific regional settings.

Because the topic of the course lies at the crossroad of several scientific disciplines, lecturers will be from a variety of fields including geography, climatology, biodiversity, modeling, epidemiology, public health and medicine. An appropriate mix of knowledge-transfer methods such as lectures, films, case study, critical incidents etc., will be used to insure that material that is new to most participants is communicated effectively.

Each session has specific objectives and short key readings that are included in the course reader.

## Duration / Accreditation

The course covers ten working days (90 Hours). 2 weeks, full time attendance.

3 ECTS (tropEd).

## Course Coordinator

*Prof. Rainer Sauerborn*

Dept. of Tropical Hygiene & Public Health  
[Rainer.Sauerborn@urz.uni-heidelberg.de](mailto:Rainer.Sauerborn@urz.uni-heidelberg.de)

## tropEd Coordinator

*Natascha Petersen, M.A.*

Dept. of Tropical Hygiene & Public Health  
University of Heidelberg,  
[petersen@uni-hd.de](mailto:petersen@uni-hd.de)

## Registration

Please register as soon as possible, as the number of participants is limited. Late registrations possible if seats still available, but please keep in mind the time you need for travel and visa arrangements etc.

## Course fee

General admittance € 1.200,- (reduced fee for 2009)  
tropEd students € 7500,- (reduced fee for 2009)

A non-refundable registration fee of € 200 is included in the course fee.

The course fee covers coursework, printed materials, coffee breaks and a pass for the Heidelberg public transportation system, but it does not include accommodation, insurance or other personal living costs during the stay.

## Contact

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[www.ukl-hd.de/athoeg](http://www.ukl-hd.de/athoeg)

## Master of Science in International Health

The Department also offers a The MSc. IH programme, consisting of a three month Core Course, several Advanced Modules and a Master Thesis. The Master can be taken as a one year full time study or part time up to 5 years as part of the tropEd network. For more information please contact [MSc\\_IH@uni-heidelberg.de](mailto:MSc_IH@uni-heidelberg.de)

## tropEd

tropEd is a network of institutions for higher education in international Health. It offers a flexible modular structure and the European-wide recognition of a Masters Degree in International Health.

More information on [www.tropEd.de](http://www.tropEd.de)

## Short Course in International Health 2010 tropEd Advanced Modules

**Disease Control: Strategies and Policies**  
January 25 – February 5, 2010

**Financing Health Care –  
Principles of Insurance**  
February 8 – 19, 2010

**Reproductive Health Services and HIV/AIDS:  
New Evidence and Strategy**  
February 22 – March 5, 2010

**Leadership and Change Management**  
March 8 – 19, 2010

**Improving the Quality of Healthcare Services**  
March 22 – April 2, 2010

**Consultancy Skills in International Cooperation in Health  
Evaluation of Health Facilities, Projects  
and Programmes**  
April 19 – 30, 2010  
September 6 – 17, 2010

**Proposal Writing as a Consultancy Skill**  
May 3 – 7, 2010

**Health and Climate Change:  
Impact and Adaptation Strategies**  
May 3 – 14, 2010

**Health of Unstable Populations**  
May 17 – 28, 2010

**Using Research for Better Practice  
in International Health**  
May 17 – 28, 2010

**Quality Management  
in International Health**  
July 5 – 16, 2010

**Health and Human Rights**  
September 20 – October 1, 2010

Short description following

## **Disease Control: Strategies and Policies**

January 25 – February 5, 2010

This course deepens the understanding of principles and strategies in disease control and equips students with the skills to successfully establish, strengthen or to systematically review disease control programmes. Special emphasis is placed on how to strengthen multi-disciplinary and inter-sectoral collaboration and how to involve communities and patients effectively in disease control programmes.

## **Financing Health Care - Principles of Insurance**

February 8 – 19, 2010

The overall objective of this course is to learn from experiences and lessons learnt from different countries in the area of financing health care, which can then be applied to different contexts. Discussion of case studies will enable participants to develop an analytic approach to problem solving and apply theoretical knowledge to a real life context.

## **Reproductive Health Services and HIV/AIDS: New Evidence & Strategy**

February 22 – March 5, 2010

The core of the course is devoted to methods for improving and managing reproductive health in the health system with a particular focus on appropriate indicators, planning process and service provision. Implemental issues related to safe motherhood, family planning and STI programmes, as well as operational strategies of VCT, PMTCT and ART services will be dealt with.

## **Leadership and Change Management**

March 8 – 19, 2010

The overall objective of this course is to explore advanced topics in leadership as it pertains to change management in dynamic health care environments found in low and middle income countries. Through participatory learning exercises, students will be taught the skills necessary as an organisational leader to assess, plan, and implement organisational change under conditions of uncertainty and complexity.

## **Improving the Quality of Healthcare Services**

March 22 – April 2, 2010

Focusing on practical tools and methods, this course provides participants with skills to improve healthcare services in low and middle income countries. It will assist participants to adapt these to national and local settings with a special emphasis on managing and motivating people. Using case studies and experiences, approaches and tools for quality improvement and their applicability in low and middle income countries will be compared.

## **Consultancy Skills in International Cooperation in Health: Evaluation of Health Projects and Programmes**

April 19 – 30, 2010; September 6 – 17, 2010

The goal of this course is to enable the participants to evaluate a health service project or programme and write an evaluation report for a Ministry of Health and a funding agency. Topics include: description of the health care sector; application of effective writing techniques principles on evaluations; description of the basic principles and processes for the evaluation, basic skills to evaluate as a team and important steps to set up a consultancy unit.

## **Proposal Writing as a Consultancy Skill**

May 3 – 7, 2010

This course will enable health professionals and managers to understand and apply the concepts and principles of proposal writing within international health and to improve their personal and technical skills for this highly required skill. Using the Call for Proposals by the Global Fund as an example, effective proposal writing techniques, as well as analytical and design tools, are used to develop and write a proposal according to the rules and regulations of an international donor. To round up the learning experience, the proposals developed in class will be evaluated by the facilitators and peers against defined criteria.

## **Climate Change and Health: Impact & Adaptation Policies**

May 3 – 14, 2010

The potentially far-reaching adverse health effects of climate change, sometimes of irreversible nature, need to be understood by researchers, practitioners and public health institutions in order to develop and implement practices and policies to counter them. The objective of this course is to provide participants with the ability to recognize the linkages between climate change and health and provide them with methods and tools to manage the impact of climate change on health.

## **Health of Unstable Populations**

May 17 – 28, 2010

The goal of the course is to provide a better understanding of the issues related to the health care of refugees, internally displaced persons and the affected host population in developing countries and to the health care of migrants. Topics include: Disaster situations, disaster preparedness, development programmes, cross-cultural awareness, working relations in the field, donor coordination, from relief to development, applied epidemiology of unstable populations.

## **Using Research for Better Practice in International Health**

May 17 – 28, 2010

Building on basic knowledge of qualitative and quantitative research methods, the course aims to equip students with the skills to systematically assess and critically appraise existing information (literature, reports, websites, databases) as evidence, then to communicate and translate such evidence into improved policy and practice.

## **Quality Management in International Health**

July 5 - 16, 2010

In cooperation with GTZ,

This course covers the general principles and frameworks for defining and promoting the quality of health systems and services including processes, models and tools for assuring and evaluating quality, using case studies from Germany and other countries. Included in the course is a two day training based on international quality management model.

## **Health and Human Rights**

September 20 – October 1, 2010

The course covers the general concepts and principles of human rights, their relationship to, and impact within the health sector. The course will use case studies from numerous countries, with a focus on low and middle-income countries, to examine the vital role of human rights within the health sector.