



# Programme syllabus

[An accessible version of the syllabus can be found in the Course and programme directory.](#)

## Master's Programme, Technology, Health and Work Environment Development 60 credits

Magisterprogram, Teknik, hälsa och arbetsmiljöutveckling

*Valid for students admitted to the education from autumn 11 (HT - Autumn term; VT - Spring term).*

This is a translation of the Swedish, legally binding, programme syllabus.

### Programme objectives

*Study programme established by the committee of STH 2010-10-20*

*Valid for students admitted to the education from HT 2011.*

After the course the participants shall have the ability to take active part in the work for improvement of the work environment and thus affect the formation of a sustainable work life. The main field of the degree programme is technology and health.

## Knowledge and understanding

The participants shall be able to work from a holistic view regarding factors that affect the work life. They shall have knowledge how a work of consultation is managed with the preventive work in the work environment. They shall have an understanding of the demand of competence for their own part of profession and indifference in comparison to the own organization as well as that of the client. They shall have an understanding of the competences of the colleges in the corresponding field and, an understanding of the added value of team work, and, when needed, be able to handle over assignments to other specialists. They shall have knowledge of available regulations in the field of work environment and understand the influence of the effective work of improvement on quality and on benefit for the company.

## Skills and abilities

The participants shall on their own be able to do investigations of organisations work environment and accomplish judgements/measurements with the aim of estimating risks and of improving the work environment. After doing so they shall be able to suggest and work out, or order, measures for improvement of the work environment. They shall also know how to communicate orally and by writing with different target groups.

## Ability to make judgements and adopt a standpoint

The participants shall, on their own, by a holistic view of the work in occupational health, and by good ethic conception, take part in the creation of a sustainable life of work in especially a social and an economical perspective.

## Extent and content of the programme

The programme will be given in parallel and in half pace during two years for students working in a profession and for the full time students in one year.

The programme is, on the whole, given on the second level. The focus of the programme is on technology and sustainable work life, and the main field of study is technology and health. The instruction language of the programme is entirely in Swedish.

## Eligibility and selection

For eligibility you must have a completed Bachelor's degree, corresponding to a Swedish Bachelor's degree (180 ECTS), or equivalent academic qualifications, in Science or Engineering and documented proficiency in Swedish corresponding to Swedish B and English corresponding to English A.

Priority will be given for applicants with a proved experience of work in the work environment or in the environmental field. Additional credits will be given for applicants with one to five years of experience of such work, corresponding to 10 ECTS per year. Selection will be done in order of decreasing credits. At equal validation the selection will be done by accidental draw.

# Implementation of the education

## Structure of the education

The programme will be given in cooperation between the School of Technology and Health (STH) at KTH and the Division of Occupational and Environmental Medicine at the Department of Public Health Sciences at Karolinska Institutet.

The starting course of the programme is also open for students on different programmes at the same division.

A planning like this makes it possible for the students to gain a deeper understanding and get training in team work over the borders of professions.

The course bounded specialization for technicians/engineers will be performed by five mandatory courses of 7,5 ECTS each. Two of those courses are open as elective courses for the above mentioned students.

The pedagogics of the programme is formed on compulsory presence at the instructor guided meetings (about two-three days per week at two-three occasions during the course period for full time students). The presence will be made easier by access to web-based communication at places outside the main place for the studies (STH) at Flemingsberg/Stockholm. Great part of the training is based upon active participation in projects at different work places.

The programme will be completed by an individually graded degree project of 15 ECTS. This degree project shall be an in depth study within one or several themes which have been given at the courses.

## Courses

The programme is course-based. Lists of courses are included in appendix 1.

## Grading system

Courses in the first and the second cycle are graded on a scale from A to F. A-E are passing grades, A is the highest grade. The grades pass (P) and fail (F) are used for courses under certain circumstances.

# Conditions for participation in the programme

Application for the programme and for the separate courses will be done at stated occasions at “studera.nu”.

## Degree project

Extent of degree project is 15 ECTS.

The degree project should normally conclude the programme.

The objective is chosen by the participant and it can be performed individually or together with one other student. The project plan shall be approved by the examining teacher. Instructor will be selected by KTH.

The degree project is graded on the same A to F scale as for the courses.

## Degree

The participant will be given the degree of Master of Science (60 credits) (magisterexamen) The degree will be given after passing the courses, the degree project and signed presence at all compulsory parts as laboratory experiments, projects and seminars.

The degree will be applied for at the STH at KTH.

Appendix 1 - Course list

Appendix 2 - Programme syllabus descriptions



# Appendix 1: Course list

## Master's Programme, Technology, Health and Work Environment Development (TAOHM)

### General courses

#### Year 1

#### Mandatory courses (60.0 Credits)

Code	Name	Credits	Edu. level
<a href="#">HN2007</a>	Leading Organisational Change and Health	7.5 hp	Second cycle
<a href="#">HN2008</a>	Strategies for Safety	7.5 hp	Second cycle
<a href="#">HN2009</a>	Chemical Hazards in the Working Environment	7.5 hp	Second cycle
<a href="#">HN2010</a>	Evaluation and Measures of the Physical Environment of Work A	7.5 hp	Second cycle
<a href="#">HN2011</a>	Evaluation and Measures of the Physical Environment of Work B	7.5 hp	Second cycle
<a href="#">HN2012</a>	Work Environment and Economics	7.5 hp	Second cycle
<a href="#">HN201X</a>	Degree Project in Work and Health, Second Cycle	15.0 hp	Second cycle

### Supplementary information

#### **The course overview of the programme**

Admission will take place every second year with first start in 2011.

*Academic year 2011/2012*

***Period 1***

***Full-time students***

Leading organisational change and health, 7,5 ECTS

Strategies for safety, 7,5 ECTS

***Part-time students***

Leading organisational change and health, 7,5 ECTS

***Period 2***

***Full-time students***

Chemical hazards in the working environment

Evaluation and measures of the physical environment of work. A, 7,5 ECTS

***Part-time students***

Evaluation and measures of the physical environment of work. A, 7,5 ECTS

***Period 3***

***Full-time students***

Evaluation and measures of the physical environment of work. B, 7,5 ECTS

Degree project in one year master degree in Work and Helth with focus on technology and sustainable work life, 15 ECTS

***Part-time students***

Evaluation and measures of the physical environment of work. B, 7,5 ECTS

***Period 4***

***Full-time students***

Work environment and economics, 7,5 ECTS

Degree project in one year master degree in Work and Helth with focus on technology and sustainable work life, 15 ECTS

***Part-time students***

Work environment and economics, 7,5 ECTS

*Academic year 2012/2013, part-time students only*

***Period 1***

Chemical hazards in the working environment, 7,5 ECTS

***Period 2***

Strategies for safety, 7,5 ECTS

***Period 3***

Degree project in one year master degree in Work and Helth with focus on technology and sustainable work life, 15 ECTS

***Period 4***

Degree project in one year master degree in Work and Helth with focus on technology and sustainable work life, 15 ECTS



# Appendix 2: Specialisations

## Master's Programme, Technology, Health and Work Environment Development (TAOHM)

This programme has no specialisations.