

## **MPHP34, Cost-effectiveness and Impact Evaluation of Health Interventions, 7.5 credits**

*Kostnadseffektivitet och effektutvärdering av hälsointerventioner,  
7,5 högskolepoäng*  
Second Cycle / Avancerad nivå

---

### **Details of approval**

The syllabus is an old version, approved by The Master's Programmes Board on 2019-12-10 and was valid from 2019-12-12, autumn semester 2019.

### **General Information**

*Main field of studies*

Public Health Science

*Depth of study relative to the degree requirements*

A1N, Second cycle, has only first-cycle course/s as entry requirements

### **Learning outcomes**

#### **Knowledge and understanding**

On completion of the course, the students shall be able to

- Account for and explain the aim of evaluating health interventions and policies
- Give an account of the main quantitative methods and applications when evaluating the effects of health interventions and policies
- Give an account of the principles behind health economic evaluations and applications

#### **Competence and skills**

On completion of the course, the students shall be able to

- Identify strengths and weaknesses and assess the suitability in different evaluation methods in specific contexts in the public health field
- Describe and critically review methods and results in existing economic evaluations in the public health field

- Actively contribute to a policy discussion from a health economics perspective based on relevant and current evidence

### **Judgement and approach**

On completion of the course, the students shall be able to

- Critically assess ethical aspects and sequences of evaluations with special focus on distribution of resources and outcomes
- Discuss and evaluate the role of the health economic evaluation from a policy perspective

### **Course content**

The course offers a basic introduction to methods for evaluation of health promotion activities. The first part of the course specialises in health economic evaluations (cost efficiency) with a focus on prevention, i.e. efforts and treatments to improve or protect the health of the individual or the population. Health economic evaluations are made in order to receive a decision base for alternative efforts or treatment methods. We will go through why and how (the method) economic evaluations are made, with special focus on assessing the applications in current examples from the literature.

The other part of the course specialises in evaluations of effects in non-controlled research designs by means of so called quasi-experimental methods. An important part in decision making and thereby also economic evaluations are access to a correct estimation of the causal effect of the effort. In the medical field, this is made often through controlled and randomised experiments. But in many situations health and health care interventions are carried out without randomisation. Quasi-experimental methods are the methods used when randomisation has not been carried out and tries to replicate a randomised experiment. We will introduce the most popular methods, discuss their advantages and disadvantages and how one can assess the application of the method in current examples from the literature. The course has an international perspective with respect to applications and analyses.

### **Course design**

The teaching of the course consists of three various types of working methods. The first is lectures based on the reading list and active learning. The other is exercise sessions where the students are trained to solve specific assignments, normally with quantitative analyses. The third form includes seminars on particularly important aspects.

### **Assessment**

The examination consists of an individual written examination and a course portfolio. The latter consisting of participation in compulsory seminars and exercise sessions and reoccurring quizzes with multiple-choice questions and group work.

Written examination: 4.5 credits

Course portfolio consisting of active participation in seminars and exercise sessions and passed group assignments and tests: 3 hp

Other forms of examination can be used if special circumstances apply

The examiner, in consultation with Disability Support Services, may deviate from the regular form of examination in order to provide a permanently disabled student with a form of examination equivalent to that of a student without a disability.

*Subcourses that are part of this course can be found in an appendix at the end of this document.*

## **Grades**

Marking scale: Fail, Pass, Pass with distinction.

The grading scale that is applied on the written examination is: Pass with distinction, Pass and Fail. In the course portfolio, the grade Pass is or Failed.

For the grade Pass on the whole course, the grade Pass on all test parts is required.

To pass the course with distinction, the grade Pass with distinction on the written examination and the grade Pass on the course portfolio is required.

## **Entry requirements**

To be admitted to the course, students must have a Bachelor's degree or the equivalent. Specific entry requirement: English B from Swedish upper secondary school or the equivalent . Basic biostatistics 7.5 credits or the equivalent.

## Subcourses in MPHP34, Cost-effectiveness and Impact Evaluation of Health Interventions

Applies from H19

- 1901 Written exam, 4,5 hp  
Grading scale: Fail, Pass, Pass with distinction
- 1902 Course portfolio, 3,0 hp  
Grading scale: Fail, Pass