



# AH2301 Transportpolicy och utvärdering 7,5 hp

Transport Policy and Evaluation

När kurs inte längre ges har student möjlighet att examineras under ytterligare två läsår.

## Fastställande

Kursplan för AH2301 gäller från och med HT09

## Betygsskala

A, B, C, D, E, FX, F

## Utbildningsnivå

Avancerad nivå

## Huvudområden

Samhällsbyggnad

## Särskild behörighet

### Eligibility

**For single course students, i e students not enrolled in a regular KTH programme, the following is required:**

- a completed Bachelor's degree in Engineering, Science, Economics or Planning including at least 60 credits in Mathematics, Physics, Statistics and/or Computer Science, as defined in the admission requirements for the Master's programme in Transport Systems and
- documented proficiency in English B, or equivalent.

**For students enrolled in the Master's programme in Transport Systems at KTH, the course in Transport and Society, AH2300, is recommended.**

## Undervisningsspråk

Undervisningsspråk anges i kurstillfällesinformationen i kurs- och programkatalogen.

## Lärandemål

After the course you should be able to:

- identify relevant policy measures and strategies to address transport oriented problems and discuss their effectiveness in relation to societal objectives
- discuss the underlying principles for different appraisal frameworks
- apply multi-criteria analysis to transport projects
- explain and apply the principles of cost-benefit analysis to make economic appraisals of transport improvement projects
- account for advantages and limitations of cost-benefit analysis
- account for methods for non-market valuation, and discuss their strengths and limitations
- use travel cost and basic stated choice methods for non-market valuation
- apply relevant methods to account for uncertainties in project evaluation
- use relevant equity measures to account for distributional impacts of different transport policies, and discuss their strengths and limitations
- use and discuss equity measures applied in developing countries
- identify important barriers to implementation of transport policies in different contexts, and discuss means to address such barriers.

## Kursinnehåll

- 1) Policy identification and strategy formulation.
- 2) Frameworks for appraising transport policy impact – land use, accessibility, air pollution, noise, accidents, and sustainability.
- 3) Principles for evaluating benefits and costs.
- 4) Basic principles and methodology for market and non-market valuation, such as stated choice methods, hedonic price models, contingent valuation, and travel cost method.
- 5) Present value, interest rate and discount rates.
- 6) Taxes, charges and regulation.
- 7) Principles and methods to handle uncertainties in appraisal and evaluation.
- 8) Equity and distributional impacts.

9) Sustainability and intergenerational equity.

10) Implementation and barriers to implementation.

The content of the course is presented and exercised in tutorials. Further training is provided in laboratory exercises. In a project assignment, the student will assess different policies to address an urgent policy issue.

## Kurslitteratur

A Methodological Guidebook, Institute of Transport Economics, Oslo, Norway, ISBN 82-480-0313-2, 2003.

P. S. McCarthy, 2001, Transportation Economics: Theory and Practice: a Case Study Approach, ISBN 0631221808.

A selection of research articles.

## Examination

- LAB1 - Laboration, 3,5 hp, betygsskala: A, B, C, D, E, FX, F

- TENA - Tentamen, 4,0 hp, betygsskala: A, B, C, D, E, FX, F

Examinator beslutar, baserat på rekommendation från KTH:s handläggare av stöd till studenter med funktionsnedsättning, om eventuell anpassad examination för studenter med dokumenterad, varaktig funktionsnedsättning.

Examinator får medge annan examinationsform vid omexamination av enstaka studenter.

## Övriga krav för slutbetyg

A mandatory written examination equivalent to 4 credits with grading scale A-F and a mandatory project assignment equivalent to 3.5 credits with grading scale PF. The course will have grading scale A-F. Assignments must be turned in before deadlines. Credits from the project assignment will be valid on the written examination for one year.

## Etiskt förhållningssätt

- Vid grupparbete har alla i gruppen ansvar för gruppens arbete.
- Vid examination ska varje student ärligt redovisa hjälp som erhållits och källor som använts.
- Vid muntlig examination ska varje student kunna redogöra för hela uppgiften och hela lösningen.