

**SYLLABUS**

# **Traffic Safety 7.5 credits**

## **C7004B**

**Trafiksäkerhet**

**Course syllabus admitted: Autumn 2013 Sp 1 - Autumn 2017 Sp 2**

**DECISION DATE**  
**2013-02-13**

# Traffic Safety 7.5 credits C7004B

## Trafiksäkerhet

### Second cycle, C7004B

| Education level | Grade scale | Subject      | Subject group (SCB)                 |
|-----------------|-------------|--------------|-------------------------------------|
| Second cycle    | G U 3 4 5   | Trafikteknik | Civil and Environmental Engineering |

## Entry requirements

C7001B Traffic in the city or equivalent course.

## Selection

The selection is based on 30-285 credits

## Examiner

Charlotta Johansson

## Course Aim

The aim of the course is to give basic knowledge of traffic safety and to understand the background theory; to choose and use methods to evaluate traffic safety and to propose safety measurements.

## Contents

Traffic crashes and traffic safety. Theory of risk compensation. Basic likelihood models. Methods to evaluate safety effects. Before- and after studies. Traffic safety effects of different safety measures. Models to predict safety. Traffic counting and speed measurements. Traffic behaviors.

## Realization

Each course occasion's language and form is stated and appear on the course page on Luleå University of Technology's website.

Obligatory lectures, seminars, self studies and field work.

## Examination

If there is a decision on special educational support, in accordance with the Guideline Student's rights and obligations at Luleå University of Technology, an adapted or alternative form of examination can be provided. 80% attendance at the course, passed the written exam, passed the oral and written presentation of field work, laboratory work and literature study.

## Overlap

The course C7004B is equal to ABC008

## Literature. Valid from Autumn 2007 Sp 1

Swedish: Englund et. al., 1999. ISBN 91-44-00168-1. Studentlitteratur.

English: Safer Roads.

K W Odgen. 1996/1997. ISBN 0-291-39829-4.

Litterature to borrow:

Lugna Gatan!/Calm Streets! Kommentus förlag.

Observational before-after studies in road safety, by Hauer. Pergamon 1997.

## Course offered by

Department of Civil, Environmental and Natural Resources Engineering

## Items/credits

| Number | Type                                     | Credits | Grade     |
|--------|--|---------|-----------|
| 0003   | Traffic safety, literature study         | 1.5     | U G#      |
| 0004   | Traffic safety calculations, laborations | 1.5     | G U 3 4 5 |
| 0006   | Field work                               | 1.5     | G U 3 4 5 |
| 0007   | Literature seminar                       | 1.5     | U G#      |
| 0008   | Report on field work                     | 1.5     | G U 3 4 5 |

## Last revised

by Eva Gunneriusson 2013-02-13

## Syllabus established

The plan is established by the Department of Civil and Environmental Engineering 2007-01-31 and is valid from H07.