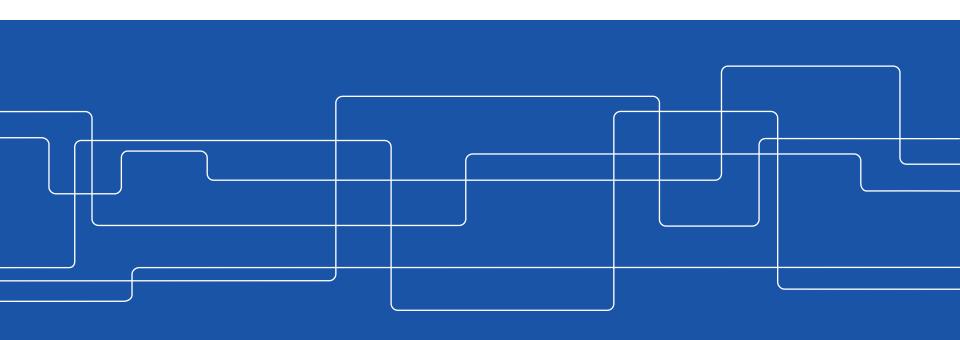


### Degree Programme in Civil Engineering and Urban Management (CSAMH)

School of Architecture and the Built Environment

**Eva Liedholm Johnson** 

KTH-Sustainability Education Day, May 12 2015



## Integration of environment and sustainable development in CSAMH programme



(Swedish Environmental Protection Agency, 2011)

The Degree Programme in Civil Engineering and Urban Management aims to provide students with:

- Prerequisites and the ability to participate in and manage work on how buildings, infrastructure and cities should be designed, built and administered.
- This also includes how institutions and regulatory systems should be developed to provide a good living environment and good development conditions for private individuals, trade and industry and society at large.



## Integration of environmental and sustainable development in CSAMH programme

We need to prepare students for their future career with knowledge, and understanding, skills and abilities within the broad field of urban management and everything which relates to planning, building and management.

Sustainable development is an integrated part in the courses where theory, methods, reflections and discussions are interacted



# Survey of the existing programme as to sustainable development

Report in 2013 (by *Björklund,A., von Oelreich, J,* Environmental Strategies Research, FMS) mapping sustainable development in courses and profiles within CSAMH, e.g. course goals, course activities, examination, progression related to sustainable development

### **Conclusions:**

- In many courses the connection to sustainable development are much stronger as evident in course in course plans
- Many aspects of sustainable development relevant for CSAMH are covered in several courses. Most focus is however on environmental aspects.
- No evidential strategy on what aspects of sustainable development should be dealt with and in which courses.
- Progression within the programme is sometimes "ad hoc" and can be improved especially in profiles year 3

## Revised CSAMH programme starting in autumn 2015

- Programme goals revised as to sustainable development
- New course plans (year 1) and course goals revised as to sustainable development
- Currently course plans are developed for year 2 starting in 2016
- Progression, course activities, examination are dealt with in a more systematical way
- Year 3 in pipeline and continues with year 4 and 5

Period 1	Period 2	Period 3	Period 4
Envariabelanalys	Algebra och geometri	Samhällsbyggnads- ekonomi	GIS och mätningsteknik
Samhällsbyggnadsprocessen		Numeriska metoder och grundläggande programmering	Flervaria belanalys

Period 1	Period 2	Period 3	Period 4
Geovetenskap och geoteknik	Tillämpad statistik	Mekanik	Stads- och trafikplanering
Naturresursteori	Plan-, bygg- och miljörätt	Byggprojektledning med BIM	Hus och anläggningar
			Differentialekvationer









