

A photograph of a modern building with a glass facade, viewed from a low angle looking up. The building is partially obscured by a white diagonal shape that serves as a background for the text.

A Multidisciplinary Approach in Sustainability Projects

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Sciences

NHL University of Applied Sciences

- 12.000 students (bachelor education)
- 4 Institutes:
 - Healthcare and Welfare,
 - Technology,
 - Education and Communication
 - Business and Management Studies

Together the institutes offer about 70 Bachelor's degree programs.



Honors Education at NHL

Students develop their competences to a higher level through teamwork in Projects

Characteristics of assignments:

- Innovative
- Entrepreneurial
- Talent based
- Multi-disciplinair
- Value-driven



Minor Programs at NHL

All Minors:

- 30 ECTS
- 2 and 3 year of the bachelor program
- Non- mandatory program
- Domain specific



GoldRimmed 'Honors' Minor Programs

- Cross-domains/ cross- sectorial
- 'Real' clients
- Real life tasks
- Multi-disciplinary teams
- Sustainability issues





Minor Marketing 3.0

- Problem: Decreasing shop variety in the City Centre
- Stakeholders: Shopkeepers, Municipality, Library, Students
- City Lab: Office in a village; work cross-sectorial

Marketing, Communication, CMD students



Solar Challenge

- Participate in Bi-annual Solar Challenge: an international competition for solar energy driven vessels
- Assignment: build a vessel, train a team, find sponsors

<http://www.dongenergysolarchallenge.com/media/videos-2014>

Engineering, ICT, Marketing students



Minor Atelier Artwork



Art-based research: Finding the relationship between the farmers hand and his farm



Minor E-Learning

<http://www.myschoolsnetwork.com/>

- Make e-learning facilities available for pupils all over the world
- Teacher Training Students are tutoring primary school pupils in this virtual community

Teacher Training, Communication & Multimedia Design,
Informatica Students



Minor I-human

Project Mattie (= Buddy)

Develop a Buddy App to help adolescents with less intellectual abilities in social situations

<http://www.congresonlinehulp.nl/archief/2013-2/parallelsessies-2013/1-mattie-een-app-als-goede-vriend/>

CMD, Social Work, Healthcare, Informatica students



Minor HaSeGa

Healthy Aging through serious gaming

<http://www.youtube.com/watch?v=DF4VSmp8Ejw&feature=youtu.be>

International Project in building games to help elderly people training their muscles

CMD, Social Work, Healthcare, Informatica
Students



Benefits of these cross sectorial minors

- Real Tasks: very motivating
- Real Problems: all of them valueable
- Real Clients: exciting for students to perform well
- Real World: not a one-disciplinary thing



Pitt falls

- Difficult to understand other disciplines in the student team: how to speak each others (professional) language
- Can the learning goals of each different bachelor be reached and assessed?
- The 'rythm' of the real world, vs the 'rythm' of school



Conclusion

- More than multi-disciplinary: work cross-sectorial!
- Invite society inside the school: business, government, NGO's
- Get your students/ pupils outside the building
- ESD is everywhere

