

## Here, there and everywhere - healthcare provision in new ways and in new arenas

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Tracks courses aim to expand the students' experience and competence in cross-disciplinary collaboration. In this course (TRA105 –advanced) within the theme *Health and sports technology* we welcome students from all programmes.

The course will address a number of the global Sustainable Development goals (SDG) as well as having a broad societal focus. Primary focus will be on SDG 3: *Ensure healthy lives and promote well-being for all at all ages*. The projects within the course can also relate to, for example, SDG 10 *“Reduced inequalities”* and 11: *Make cities inclusive, safe, resilient and sustainable*.

This course is accredited as a 7,5 credits MTS-course.

### Background

Healthcare systems all over the world are exposed to huge challenges – from the local level to global. There are higher expectations on healthcare provision from users and staff, together with technological opportunities combined with new needs. These factors push towards a shift from hospital-based units towards a situation where provision of health promotion and healthcare activities is needed in patients/peoples' everyday places. The global Covid-19 virus pandemic raises the importance of thinking in innovative and resilient ways to deliver care and staying healthy during challenging times.



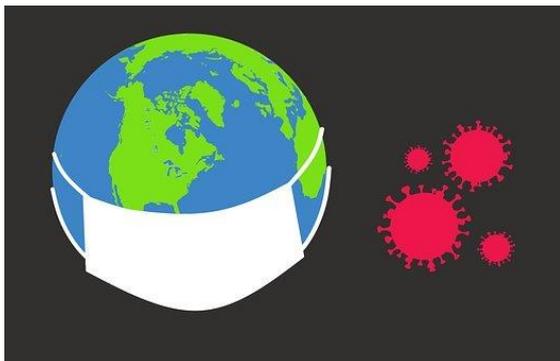
This course will address healthcare system challenges, presented and explained by actors central within the Swedish healthcare system. The questions addressed in the course are not possible to solve properly within a single field of knowledge, these challenges need a multidisciplinary approach. Therefore, the teachers and stakeholders in the course include a

multitude of competences in a unique setting, headed by the Centre for Healthcare Improvement (CHI) with competence about healthcare organization and also involving Architecture and Civil Engineering as well as Biomedical Engineering/Digital Health expertise from the department of Electrical Engineering.

## Challenges

Examples of challenges that the students will be able to study and propose solutions within:

- Digi-physical healthcare centres
  - designing a combination of physical and virtual healthcare
- Children with complex care needs – ways to combine architecture, organisation and new technologies to better fulfil the needs of children and their families?
- Project Autumn leaves: fall detection and prevention – design ideas and solutions



## Expected outcomes

The result of this course is expected to concern and encompass a number of organizational, spatial and technologically oriented solutions and innovations.

Participation can serve as source of inspiration for future job opportunities for students but can also contribute to new aspects on the provision of healthcare. This course offers you the possibility to learn how your competence from your education could contribute together with others in tackling crucial societal challenges.

## Interested?

Apply to the course by May 20, sending an e-mail including a motivation letter to:

[patrik.alexandersson@chalmers.se](mailto:patrik.alexandersson@chalmers.se)

Please attach your CV and course transcripts. It is appreciated if you combine these documents in a single pdf-file.

We will let you know if you are accepted to the course no later than June 2.

We aim at 30 students (minimum 10) in balanced project groups with a mix of competences and backgrounds. We will organize the students in groups based on these factors. If the interest is high, there will be a selection of students based on their competence, interests and motivation.