To use computers and information technology contributes to better and more efficient health care?

Many different kind of applications
Important for safety, efficiency

Life saving systems

Administration

Image processing

Home care – mobile work
Ambulance systems

Mobile acute care

The design is important
The course goal

The course will give you a base for applying information technology in medicine and health care. We will explain some important concepts and problem areas. Especially we will focus on what is needed for development of efficient and usable IT-systems in health care.

*You know IT – now you will learn (some aspects) how to apply it to health care.*

You will learn about:

- Medical documentation, patient records and communication
- Medical terminology
- Systems development in health care
- Medical image processing
- Telemedicine and decision support systems
- Design of user interfaces in health care
- Standards, laws and regulations

Site visits

- Heart surgery
- Radiology
Assignments

• A small project, assignment, to be performed in groups (3-5 persons).
• To analyse an existing system, evaluate its usability and suggest preliminary solutions to usability problems.
• To design and develop, in prototype form, a small system that can solve information problems in a health care environment.
• Start early!!!

Schedule

1 Wed Oct 29 15-17 Course introduction
2 Mon Nov 3 08-10 Medical informatics, overview,
3 Wed Nov 5 15-17 Medical documentation and patient record systems
4 Mon Nov 10 13-15 Telemedicine, decision systems
5 Tue Nov 11 08-10 Systems development projects and usability
6 Wed Nov 19 15-17 HCI and usability in health care
7 Tue Nov 25 15-17 Medical image processing
51 Thu Nov 27 09-12 Site visit 1: Heart surgery
52 Thu Nov 27 13.30-17 Site visit 2: Radiology
8 Fri Nov 28 10-15 Mobile work, home care applications, safety etc.
9 Tue Dec 2 15-17 Laws and regulations
10 Wed Dec 3 10-12 Supervision
11 Wed Dec 10 10-15 Assignment reports and presentation
12 Thu Dec 11 15-17 Assignment reports, written examination

Home page

http://www.it.uu.se/edu/course/homepage/medinf/ht08