

# Perspectives on Biomedical Engineering

Programme course

2 credits

Medicintekniska utblickar

TBMT32

Valid from: 2017 Spring semester

**Determined by**

Board of Studies for Electrical  
Engineering, Physics and Mathematics

**Date determined**

2017-01-25

## Main field of study

Biomedical Engineering

## Course level

First cycle

## Advancement level

G1X

## Course offered for

- Engineering Electronics
- Computer Science and Engineering, M Sc in Engineering
- Biomedical Engineering, M Sc in Engineering
- Applied Physics and Electrical Engineering, M Sc in Engineering
- Information Technology, M Sc in Engineering
- Applied Physics and Electrical Engineering - International, M Sc in Engineering

## Specific information

The course is not available for exchange students

## Entry requirements

Note: Admission requirements for non-programme students usually also include admission requirements for the programme and threshold requirements for progression within the programme, or corresponding.

## Intended learning outcomes

The aim of the course is to convey a contemporary view of research and development in biomedical engineering and related areas. The course also provides training in written communication. After passing the course the student should be able to:

- describe the biomedical engineering research front line
- portray engineering problems in health care
- discuss, in writing, biomedical engineer research and development

## Course content

The course content is defined by the lectures and the study visit

## Teaching and working methods

The course includes eight lectures of two hours each given by researchers at LiU or invited speakers from industry and health care. In addition, the course contains a study visit at a biomedical engineering company. The student should also write a short essay based on examples of biomedical engineering in media. The essay can be written in Swedish or English.

The course is scheduled over the entire spring semester.

## Examination

ANN1	Active participation during at least six lectures and study visit	1	U, credits G
UPG2	Essay	1	U, credits G

Active participation means that participants should be able to summarize the content. Essays are written individually. Grades are given as 'Fail' or 'Pass'.

## Grades

Two-grade scale, U, G

## Other information

### Supplementary courses

Biomedical engineering

## Department

Institutionen för medicinsk teknik

## Director of Studies or equivalent

Marcus Larsson

## Examiner

Håkan Örman

## Course website and other links

<https://www.imt.liu.se/edu/courses/TBMT32/index.html>

## Education components

Preliminary scheduled hours: 24 h

Recommended self-study hours: 29 h

## Course literature

### Additional literature

#### Other

- Reading material will be announced in connection to the lectures
- Writing guides

## Common rules

Regulations (apply to LiU in its entirety)

The university is a government agency whose operations are regulated by legislation and ordinances, which include the Higher Education Act and the Higher Education Ordinance. In addition to legislation and ordinances, operations are subject to several policy documents. The Linköping University rule book collects currently valid decisions of a regulatory nature taken by the university board, the vice-chancellor and faculty/department boards.

LiU's rule book for education at first-cycle and second-cycle levels is available at [http://stydokument.liu.se/Regelsamling/Innehall/Utbildning\\_pa\\_grund-\\_och\\_avancerad\\_niva](http://stydokument.liu.se/Regelsamling/Innehall/Utbildning_pa_grund-_och_avancerad_niva).