



FSK3526 KTH-SJTU Summer School in Interdisciplinary Biomedical Research 4.5 credits

KTH-SJTU sommarskola i interdisciplinär biomedicinsk forskning

This is a translation of the Swedish, legally binding, course syllabus.

Establishment

Course syllabus for FSK3526 valid from Autumn 2013

Grading scale

G

Education cycle

Third cycle

Specific prerequisites

Admitted to PhD studies at KTH, or last year student at any of the Civ Eng or Masters programs at KTH directed towards interdisciplinary biomedicine in a broad sense.

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

To get an insight into prominent interdisciplinary biomedical research at KTH and SJTU, into differences and similarities between Swedish and Chinese research methodology and culture, into how new technologies can tackle future challenges in medical healthcare in Sweden and in China, and to create contacts across the disciplines and nations.

Course contents

Introduction of the educational and research systems of KTH and SJTU. Lectures, oral presentations, study visits and discussions within biomedical engineering, biophysics, bioimaging, proteomics, genomics, neuromics, biomedical simulations and modelling, diagnostics etc.

Disposition

Lectures by 10-15 invited lecturers from KTH and SJTU representing a broad range of prominent interdisciplinary biomedical research at KTH and SJTU. Oral presentations by the participants themselves, study visits and scientific discussions

Course literature

Each lecturer of the course will be asked to provide a scientific article or review article reflecting the content of the lecture.

Equipment

No specific requirements. Study visits at selected research laboratories will be a part of the course.

Examination

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

If the course is discontinued, students may request to be examined during the following two academic years.

Oral presentation + short written report from the course

Other requirements for final grade

Attending all lectures and study visits. oral presentation of own research, or of other recently published, relevant interdisciplinary biomedical research. Short written summary with own reflections from the course.

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.