



LUNDS UNIVERSITET
Medicinska fakulteten

Biomedical, medical and public health training
board (NBMFU)

COURSE SYLLABUS

Ref 1(2)

M2008/1032

Adopted by the NBMFU on 21 May 2008

Valid from autumn term 2008

Revised on 21 February 2011

Valid from autumn term 2011, M2011/365

BIMM59 Laboratory Rotation

15 higher education credits Second cycle

General Information

Main field

Biomedicine

Subject

Biomedical subject area of choice.

Type of course and its location in the education system

The course is compulsory in the Master's (two years) programme in Biomedicine and is taught in term 3.

Language of instruction

English

Learning Outcomes

Knowledge and understanding

On completion of the course, students shall be able to:

- describe and summarize the scientific background for a minor research project

Skills and abilities

On completion of the course, students shall be able to:

- with some support from the supervisor formulate a project plan
- independently perform research in accordance with a project plan
- document the completed work and the results obtained in a lab book
- independently process and compile results obtained in a project report
- orally present a completed project

Judgement and approach

On completion of the course, students shall be able to:

- assess and evaluate the significance of the research results obtained
- reflect on ethical considerations and risk assessments relevant to a research project

Course Content

In this course, a project (experimental and/or theoretical) related to biomedical research is to be carried out independently in cooperation with a supervisor.

Instruction and Examination

The work is carried out with the cooperation of a supervisor at the university, at a company or an institute, which conducts qualified biomedical research or development work. The task of the supervisor is to ensure that the work carried out during the project complies with the project plan and schedule, i.e. that the work is proceeding towards the goal and meets ethical and safety criteria. The student shall independently carry out the project in accordance with the project plan. This involves writing a method description, learning the methodology, carrying out the various stages, and documenting the results of the study.

The course may consist of one long or a few (no more than 3) shorter projects. Students will keep a lab book throughout the course. A project plan (using a template) is written for each project, and incorporated into the lab book.

The assessment is based on oral and written presentations of one of the research projects. Both presentations must be conducted in English. The written report shall include approximately five A4 pages with these headlines: Summary, Method, Results and Discussion. The quality of the lab book will be assessed as well. Grades are set at the time of the report.

Grades

The grades awarded are Pass or Fail.

Admission Requirements

One year's study on the Master's (two years) programme in biomedicine.

Literature

Relevant scientific papers in the subject field, and material distributed during the course.