



LUNDS UNIVERSITET
Medicinska fakulteten

Biomedical, medical and public
health training board (NBMFU)

COURSE SYLLABUS 1(3)

Adopted by the NBMFU on 12
June 2008, Valid from autumn
term 2008 M2008/1033
Revised by the Programme
Director 2011-05-04 M2011/825
Valid från autumn term 2011

BIMM57 Biomedicine – the Profession

7.5 higher education credits Second cycle

General Information

Main field

Biomedicine

Subject

Professional development

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, the student shall be able to:

- provide an account of general concepts that are of importance for drug development, production and administration and that are used in biomedical/pharmaceutical industry

Skills and abilities

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

- plan a short biomedical project and describe this in a project plan

Adopted by the NBMFU on 12
June 2008, Valid from autumn
term 2008 M2008/1033
Revised by the Programme
Director 2011-05-04 M2011/825
Valid from autumn term 2011

- analyse, criticise and present scientific papers in the field of biomedicine
- suggest a solution to a research problem through searches and studies of the scientific literature

Judgement and approach

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

- reflect on relevant ethical and/or safety problems associated with the implementation of a project

Course Content

The aim of this course is to prepare the student for research and development activities, both within the frame of the Master 's programme in performing a degree project and for future work in the academy or in biomedical/pharmaceutical industry. The course comprises four items:

1. The student is to identify a shorter biomedical project, on which basis a project plan is drawn up under supervision. The project in itself is carried out within the frames of the course Laboratory rotation (BIMM59).
2. The student is trained to analyse and criticise biomedical, scientific papers by attending a series of "Journal Clubs". Each student will on at least one occasion lead a seminar and present a paper to a group of students and a teacher.

An industrial perspective is given within the course by two activities:

3. Representatives from biomedical/pharmaceutical companies in the region will give a series of lectures/seminars on the process of developing, producing and administrating drugs.
4. The student will be given the task to solve a small scientific problem through literature searches and studies. Problems will be presented by researchers in a biomedical/pharmaceutical company, at the university or within clinical research. Students will work in groups of two to suggest a solution to the assigned problem.

The course is given part-time throughout term 3.

Instruction and Examination

The modes of working in the course are mostly student active and independent. As help in the identification of a project the student will attend a series of scientific seminars presented by established researchers. The student will thereafter establish contact with a researcher and under supervision by him/her search for more information about

Adopted by the NBMFU on 12
June 2008, Valid from autumn
term 2008 M2008/1033
Revised by the Programme
Director 2011-05-04 M2011/825
Valid från autumn term 2011

the project and write a project plan. Instruction within the course is given through a mixture of lectures and seminars. As for Journal Clubs, each student will lead at least one seminar. A supervisor/mentor will support the student in the literature task.

Examination of the intended learning outcomes will take place orally and in writing. Knowledge and understanding will be examined in the form of a PBL case on drug development concepts. Skills and abilities as well as judgement and approach will be examined as follows: The written project plan is presented and discussed at a seminar where also the ability to reflect on ethical and security aspects is examined. The literature task is presented orally and discussed at a seminar within the research group in question.

Specific course demand:

Presence at lectures/seminars given by representatives from the industry is compulsory. To pass the course the student must actively participate in Journal Clubs.

Grades

The grades awarded are Pass or Fail.

Admission Requirements

One year's study on the Master's (two years) programmes in Biomedicine.

Literature

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