



**LUND**  
UNIVERSITY

Faculty of Medicine

## **VMFB19, Biomedicine: Methodology project, First Cycle, 30 credits**

*Biomedicin: Metodologiprojekt på grundläggande nivå, 30 högskolepoäng*

**First Cycle / Grundnivå**

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### **Details of approval**

The syllabus was approved by The Master's Programmes Board on 2016-06-07 to be valid from 2016-07-01, autumn semester 2016.

### **General Information**

Freestanding course for incoming exchange students.

*Language of instruction:* English

*Main field of studies*

Biomedicine

*Depth of study relative to the degree requirements*

G2F, First cycle, has at least 60 credits in first-cycle course/s as entry requirements

### **Learning outcomes**

#### **Knowledge and understanding**

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

- account for the research background of the issue under discussion
- explain the technologies that have been used in the project

#### **Competence and skills**

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

- write a project plan that is based in research with regard to the aim/issue and method chosen
- document, compile and suggest interpretations of the results they have obtained
- summarise the results they have obtained and present them orally

### **Judgement and approach**

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

- reflect on aspects of ethics and safety of the completed project

### **Course content**

The students are to conduct an experimental and/or theoretical project of 20 weeks linked to biomedical research, aided by supervision. The project is to be executed in a research team that is linked to the Faculty of Medicine in Lund.

### **Course design**

The project is to be executed at the Lund University Faculty of Medicine or an equivalent organisation within Region Skåne which conducts research and/or development work in biomedicine. The project work is supervised. The supervisor is to be employed at Lund University or Region Skåne and hold a PhD. The project is to be carried out full time.

An application including a project plan, formulated by the student but with the support of the supervisor, must be approved by the examiner of the course before the project may be commenced. The project plan must demonstrate that aspects of ethics and safety have been taken into consideration.

Throughout the project, the supervisor is to provide the student with weekly feedback on his or her progress, and the student is to provide weekly reflections on his or her performance and use of the feedback received. Furthermore, the student is to obtain feedback from other staff at the workplace, e.g. a biomedical analyst or doctoral student, on at least two occasions.

In addition to laboratory work or equivalent activities, the project is to include literature searches and studies, documentation of methods and completed experiments in a log, discussion and interpretation of data, and a summary of results in view of the oral presentation.

The course is concluded with an oral presentation to the research team and the examiner of the course. In connection with the following discussion, the student must be able to support his or her results and conclusions with original data recorded in a log.

## **Assessment**

The assessment is based on a weighted assessment of the student's course portfolio. The portfolio is to include the formative feedback and the student's reflections on the feedback received, the student's log and the oral presentation, all of which is to be linked to the learning outcomes of the course.

Other forms of examination can be used if there are special reasons.

*Subcourses that are part of this course can be found in an appendix at the end of this document.*

## **Grades**

Marking scale: Fail, Pass.

## **Entry requirements**

To be admitted to the course, students must have completed one year of studies on the Bachelor of Medical Science programme in Biomedicine or an equivalent science programme.

## **Further information**

The course may not be included in a degree of Bachelor or Master (120 credits) in Biomedicine and cannot replace the regular degree project.

## Subcourses in VMFB19, Biomedicine: Methodology project, First Cycle

Applies from H16

- 1601 Project plan, 1,5 hp  
Grading scale: Fail, Pass
- 1602 Course portfolio, 28,5 hp  
Grading scale: Fail, Pass