



INSTITUTE OF BIOMEDICINE

BMA062 Bachelor Thesis in Biomedical Laboratory Science, 15 credits

Examensarbete i biomedicinsk laboratorievetenskap, 15 högskolepoäng

First Cycle

Confirmation

This course syllabus was confirmed by Committee for Study Programmes in Medical Diagnostics and Techniques on 2010-11-15 and was last revised on 2020-11-03 by Institute of Biomedicine to be valid from 2021-01-18, spring semester of 2021.

Field of education: Medicine 100%

Department: Institute of Biomedicine

Position in the educational system

The course is given during 6th semester.

The course can be part of the following programmes: 1) Programme for the Biomedical Laboratory Science (VMLVH) and 2) Programme in Biomedical Laboratory Science (M1BMA)

Main field of studies

Biomedical Laboratory Science

Specialization

G2E, First cycle, has at least 60 credits in first-cycle course/s as entry requirements, contains degree project for BA/BSc

Entry requirements

To be eligible students should have successfully completed all the courses in semester 1-4 and have attended courses in 5-6 semester of the Biomedical Laboratory Scientist Programme (180 hec) (approved courses of 142,5 credits within the programme) .

Learning outcomes

On successful completion of the course the student will be able to:

Knowledge and understanding

- search for and collect relevant scientific information
- explain adequate terminology and concepts in the field
- explain the principles of the laboratory methods and the examination methods used in the project.

Competence and skills

- plan and with appropriate methods, carry out an experimental or methodologically focused research project
- present an individual work both orally and in writing
- discuss the choosen methods, the results and intepretation of these
- communicate new facts and problems

Judgement and approach

- critically review and interpret one's own and others' work
- follow ethical rules and guidelines for research and methodological development on animals and humans
- discuss one's own level of knowledge and its importance for the work's realization and result

Course content

Information competency: Literature retrieval, databases, reference handling

Ethics: ethical rules and guidelines for research;

Completion of an experimental and/or method-focused research project: compilation of a project plan, data collection, processing and interpretation of data, presentation according to norms for scientific documentation. Oral presentation and defense of the work. Critical review as well as public discussion and examination of another course participant's bachelor's thesis.

Form of teaching

Consiste of individual work where the student gets supervision at the Laboratory/division where the project is being performed.

A compulsory project plan needs to be submitted by the student during the first three weeks of the course.

Language of instruction: English and Swedish

Assessment

The course is examined by a written report and an oral examination which includes presentation, defending and opposition of another thesis done by a fellow student.

Not approved mandatory parts will be retaken according to instructions given by the examiner or in the current Study plan.

Supplementation of reports: The examiner can decide that a student may submit supplementary reports for examination. A report that is still not reaching the level Pass after two submitted supplements, will get the grade Fail. The examiner decides that if supplementary work is allowed based on the possibility to reach the grade Pass and decides the dates for an eventual supplementary. A student that get the grade Fail on the module will have to redo the whole module again, next occasion the course is given. A student that already received the grade passed on a report, is not allowed to submit supplementary work in order to get a higher grade.

A student who has taken two exams in a course or part of a course without obtaining a pass grade is entitled to the nomination of another examiner. The student needs to contact the department for a new examiner, preferably in writing, and this should be approved by the department unless there are special reasons to the contrary (Chapter 6 Section 22 of the Higher Education Ordinance).

If a student has received a recommendation from the University of Gothenburg for special educational support, where it is compatible with the learning outcomes of the course and provided that no unreasonable resources are required, the examiner may decide to allow the student to sit an adjusted exam or alternative form of assessment.

In the event that a course has ceased or undergone major changes, students are to be guaranteed at least three examination sessions (including the ordinary examination session) over a period of at least one year, but no more than two years, after the course has ceased/been changed. The same applies to placements and professional placements (VFU), although this is restricted to just one additional examination session.

Grades

The grading scale comprises: Pass with Distinction (VG), Pass (G) and Fail (U).

In order to get the grade Pass with Distinction (VG) the student must receive the grade VG on the written report and a VG on the oral presentation and on the opposition of another report.

Course evaluation

Course evaluation is made in writing with help of a general course evaluation, as well as orally in dialogue with the students. The course coordinator summarise and makes an analysis of the course evaluation and provides suggestions for development of the course. Analysis and suggestions are reconnected to the students and published on the Gothenburg University's Learning management platform, and presented at the next start of the course.