



**LUND**  
UNIVERSITY

Faculty of Science

## **MOBK01, Molecular Biology: Bachelor's Degree Project, 15 credits**

*Molekylärbiologi: Examensarbete - kandidatexamen, 15 högskolepoäng*  
**First Cycle / Grundnivå**

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### **Details of approval**

The syllabus was approved by Study programmes board, Faculty of Science on 2007-05-10 and was last revised on 2014-12-18. The revised syllabus applies from 2015-01-18, spring semester 2015.

### **General Information**

The course is a compulsory first-cycle course for a degree of Bachelor of Science in Molecular Biology.

*Language of instruction:* Swedish

*Main field of studies*

Molecular Biology

*Depth of study relative to the degree requirements*

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

### **Learning outcomes**

#### **Knowledge and understanding**

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

- Demonstrate advanced knowledge in a molecular biological subject or research area
- Account for the main features of safety regulations for laboratory work and fieldwork
- Describe basic principles of scientific writing and presentation techniques

## Competence and skills

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

- Plan an individual project
- Carry out an independent project individually or in a smaller group
- Carry out a scientific literature search using some of the most common databases
- Make a risk analysis of a laboratory exercise
- Write a scientific paper
- Use a presentation program e.g. PowerPoint
- Present the project orally for other molecular biology students

## Judgement and approach

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

- Evaluate and compile scientific information
- Evaluate the results of a scientific study
- Put the results of a scientific study into a community perspective
- Carry out a scientific discussion both as author and reviewer of a thesis during the oral presentations

## Course content

Information and training in oral presentation techniques, scientific writing, database use, literature search, and how to give feedback. Planning of a theoretical or practical project with a supervisor and writing of a project plan, which should be approved by the supervisor. The project should be presented orally and in writing. The report should be written as a scientific paper or in another form approved by the supervisor. The oral presentation takes place during a seminar where the work is discussed and commented. After the seminar, the report may need to be revised to be approved. The student shall also be present at other presentations and act as opponent and give feedback on another presentation.

## Course design

The teaching consists of lectures, group and project work, and written and oral presentation of the project. Participation in group work, project, and presentations are compulsory.

## Assessment

Examination takes place in the form of a written project plan, a scientific paper or report of the completed independent work, an oral presentation of the project and critical review on another student's project presentation. For students who have not passed the regular examination, additional occasion in close connection to this is offered.

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

## **Grades**

Marking scale: Fail, Pass, Pass with distinction.

To pass the entire course, approved project plan, approved report, an oral presentation of the independent project, feedback on another project, and participated in all compulsory parts, are required.

The grade is decided by the examiner after consultation with an additional teacher and the supervisor. The final grade is decided through a weighing of the results of the different parts that are included in the examination.

## **Entry requirements**

For admission to the course, knowledge corresponding to MOBA01 Cell Biology 15 credits, BIOA01 Genetics and Microbiology 15 credits, BIOC01 Human Physiology 15 credits, MOBA02 The Chemistry of the Cell 15 credits, MOBA03 Molecular Biology 15 credits, and 22.5 credits of chemistry, is required.

## **Further information**

For more detailed information, see Instructions for degree project for Bachelor of Science.

## Subcourses in MOBK01, Molecular Biology: Bachelor's Degree Project

Applies from H07

0701 Bachelor's Degree Project, 15,0 hp  
Grading scale: Fail, Pass, Pass with distinction