



## DEPARTMENT OF CHEMISTRY AND MOLECULAR BIOLOGY

### **BIO337 Applied Project in Molecular biology (internship), 15 credits**

Tillämpat projekt i molekylärbiologi (praktik), 15 högskolepoäng

*First Cycle*

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#### **Confirmation**

This course syllabus was confirmed by Department of Chemistry and Molecular Biology on 2016-02-24 and was last revised on 2022-05-06 to be valid from 2022-05-13, autumn semester of 2022.

*Field of education:* Science 100%

*Department:* Department of Chemistry and Molecular Biology

#### **Position in the educational system**

This is an in depth course at undergraduate level that can be included as part of a Bachelor's degree in Biology or Molecular Biology, or as part of a Master's degree in Biology, Molecular Biology or Genomics and Systems Biology. The course can also be taken as a freestanding course.

#### *Main field of studies*

Molecular Biology

Biology

#### *Specialization*

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

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#### **Entry requirements**

Completed basic courses in biology comprising 60 credits in the subject areas of cell biology, molecular genetics, evolution, botanical and zoological physiology, ecology and biodiversity and systematics, or equivalent, of which at least 45 credits must be approved.

At least one in depth course of 15 credits in a relevant area are also needed.

To provide the requirement in English by an internationally recognized test, for example TOEFL, IELTS, the English proficiency should be equivalent to the level of English 6/English Course B from Swedish Upper Secondary School.

### **Learning outcomes**

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

#### *Knowledge and understanding*

Demonstrate knowledge and understanding of the theoretical background to the project selected.

#### *Competence and skills*

Apply previously achieved theoretical knowledge in practice.

Ability to independently plan and conduct the project.

In writing account of the work carried out in detailed and interesting way.

#### *Judgement and approach*

Demonstrate the ability to identify their need of further knowledge and to develop their competence.

### **Course content**

The student performs under supervision a scientifically structured investigation or an application of previously gained knowledge in the molecular biology field. The project can be done at the Department of Chemistry and Molecular Biology, at another department in a relevant area, in companies or government agencies.

### **Form of teaching**

The work must be presented in an essay or report in English.

*Language of instruction:* English

### **Assessment**

Both practical skills and the written report will be evaluated. Criteria for the evaluation will be available for the student during the course.

If a student, who has failed the same examined component twice, wishes to change

examiner before the next examination, a written application shall be sent to the department responsible for the course and shall be granted unless there are special reasons to the contrary (Chapter 6, Section 22 of Higher Education Ordinance).

In cases where a course has been discontinued or has undergone major changes, the student shall normally be guaranteed at least three examination occasions (including the ordinary examination) during a period of at least one year from the last time the course was given.

**Grades**

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

**Course evaluation**

Opportunity to submit a written course evaluation is given at the end of the course.

The results of and possible changes to the course will be shared with students who participated in the evaluation and students who are starting the course.

**Additional information**

To be accepted on the course, the student must have found a supervisor and a project that can be approved by the instructor for the course.