



## Syllabus

### **BI4094.1 Evolutionary genetics and population genetics, 7.5 credits**

#### **Evolutionär genetik och populationsgenetik**

The course is given as course independent of study programme

Syllabus discontinued 11 October 2002

Version 1 in Slukurs. Corresponds to version 1 in Ladok

#### **Syllabus approved**

26 May 1997

The version applies to students admitted from spring 1999 to autumn 2003

The version is not a module version

#### **Subjects**

Biology

#### **Education cycle**

First cycle

#### **Modules**

<b>Title</b>	<b>Code</b>	<b>Credits</b>
Single module	0101	7.5

#### **Advanced study in the main field**

#### **Grading scale**

Pass / Failed

The requirements for attaining different grades are described in the course assessment criteria which are contained in a supplement to the course syllabus. Current information on assessment criteria shall be made available at the start of the course.

**Language**

Swedish

**Prior knowledge**

The equivalent of: 20 Swedish University Credits (SUC) of basic (A-level) courses in biology including 5 SUC in cell biology, and 10 SUC of basic courses in chemistry.

**Objectives**

To give the students basic knowledge in population genetics and evolution.

**Content**

- Population genetics, analysis of genetic variation within and between populations, analysis of genetic variation at the DNA and organism levels.
- General and molecular evolution, adaptation and specialisation – theory and mechanisms.
- Application of molecular genetic methods in forest genetics and breeding.

**Implementation**

Lectures ca 25 h

Exercises and experiments ca 45 h (compulsory)

Seminars ca 20 h (compulsory)

**Examination****Requirements for examination**

Written examination and seminars.

Approved examination and seminars. Compulsory participation in exercises and laboratory experiments.

- If the student fails a test, the examiner may give the student a supplementary assignment, provided this is possible and there is reason to do so.
- If the student has been granted special educational support because of a disability, the examiner has the right to offer the student an adapted test, or provide an alternative assessment.

- If changes are made to this course syllabus, or if the course is closed, SLU shall decide on transitional rules for examination of students admitted under this syllabus but who have not yet passed the course.
- For the examination of a degree project (independent project), the examiner may also allow the student to add supplemental information after the deadline. For more information on this, please refer to the regulations for education at Bachelor's and Master's level.

### **Additional information**

- The right to take part in teaching and/or supervision only applies to the course date to which the student has been admitted and registered on.
- If there are special reasons, the student may take part in course components that require compulsory attendance at a later date. For more information on this, please refer to the regulations for education at Bachelor's and Master's level.

### **Responsible department**

Department of Forest Genetics and Plant Physiology

### **Supplementary Information**

*Finalized by:* Programnämnden för skogsvetarprogrammet

*Biology Area:* Other Biology Courses