



Syllabus

BIO574.1 Pharmacology and toxicology, 15.0 credits

Farmakologi och toxikologi

The course is given as course independent of study programme

Syllabus discontinued 7 December 2007

Version 1 in Slukurs. Corresponds to version 1 in Ladok

Syllabus approved

29 November 2004

The version applies to students admitted from autumn 2005 to autumn 2008

The version is not a module version

Subjects

Biology

Education cycle

First cycle

Modules

Title	Code	Credits
Single module	0101	15.0

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: 40 Swedish University Credits (SUC) of basic (A-level) and intermediate (B-level) courses in Biology including 5 SUC in Animal Physiology, 10 SUC in Biochemistry and 10 SUC in Biology.

Objectives

After having completed the course, the students shall:

- be able to evaluate fundamental pharmaco/toxicokinetic data
- have good knowledge of desirable and also adverse/toxic effects of drugs and other xenobiotics and the underlying mechanisms
- have knowledge of methods which can be applied when studying desirable and adverse effects of drugs and other substances
- have knowledge of drug-, food- and environmental toxicology
- be well informed in risk assessment, risk management and risk communication

Content

- Principles for how drugs and other xenobiotics exert their effects on molecular and cellular levels and fundamentals for pharmaco- and toxicokinetics.
- Principles for the fate of drugs and other xenobiotics in the organism (absorption, distribution, metabolism, bioactivation and excretion).
- Target organs for toxic effects of drugs and other xenobiotics.
- Effects of drugs on different organ systems and effects of microbial and antoparasitic drugs.
- Intoxications.
- Adverse and toxic effects of drugs and toxic effects of substances in the environment and in food.
- Principles for risk assessment including estimation of acceptable dietary intakes, maximum residue limits, threshold limit values and withdrawal times.
- Study tours.

Implementation

Lectures 80 h.

Laboratory work, seminars/group practice 46 h.

Study tours 8 hours.

Examination

Requirements for examination

Individual assignments and written examination.

Passed examination, passed seminars and assignments.

- 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

Responsible institution/similar

Department of Biomedical Sciences and Veterinary Public Health, division of pathology, pharmacology and toxicology

Location

Uppsala

- 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 Biomedical Sciences and Veterinary Public Health

Supplementary Information

Finalized by: Programutskottet för bioteknologiprogrammet och agronomprogram-
mets livsmedelsinriktning

Biology Area: Other Biology Courses

Replacement course: BI7050