Department of Biology Education

Stockholm University

Syllabus

for course at first level

Environmental Toxicology, Introductory Course
Miljötoxikologi, orienteringskurs

7.5 Higher Education Credits
7.5 ECTS credits

Course code:	BL1005
Valid from:	Autumn 2007
Date of approval:	2006-10-18
Department	Department of Biology Education
Subject	Biology

Decision

This syllabus has been approved by the Board of the Faculty of Science at Stockholm University.

Prerequisites and special admittance requirements

Basic eligibility.

Course structure

Examination code	Name	Higher Education Credits
1005	Environmental Toxicology	7.5

Course content

The course covers different aspects of toxicology from a biological point of view, describing effects and mechanisms of toxic agents on higher organisms including man. Examples of topics discussed are: the basis for toxicology, radiation toxicology, neurotoxicology, xenobiotic metabolism, genotoxicity, damage response, cell signalling, genomic instability, DNA adducts and repair, mechanisms of cancer, toxic compounds in the environment, monitoring of effects in the environment, rules and regulations for toxic compounds.

Learning outcomes

It is expected that the student after taking the course will be able to:
- show certain knowledge of mechanisms of toxic agents on living organisms at individual, organ, cellular, subcellular and molecular levels.
- show certain knowledge of how poisonous agents affect the heritable material and how such effects relate to the origin of age related diseases including cancer.

Education

The education consists of lectures and demonstrations.
Participation in demonstrations and group education associated with this is compulsory. An examiner may rule that a student is not obliged to participate in certain compulsory education if there are special grounds for this after consultation with the relevant teacher.

Forms of examination

a. Examination for the course is in the following manner: measurement of knowledge takes place through: Written and/or oral examination

b. Grading is carried out according to a 7-point scale related to learning objectives:

A = Excellent
B = Very Good
C = Good
D = Satisfactory
E = Sufficient
Fx = Fail
F = Fail

c. Grading criteria for the course will be distributed at the start of the course.

d. A minimum grade of E is required to pass the course, together with:
• participation in all compulsory education

e. Students who fail to achieve a pass grade in an ordinary examination have the right to take at least further four examinations, as long as the course is given. The term “examination” here is used to denote also other compulsory elements of the course. Students who have achieved a pass grade on an examination may not retake this examination in order to attempt to achieve a higher grade. Students who have failed to reach a pass grade on two occasions have the right to request that a different teacher be appointed to set the grade of the course. A request for such appointment must be sent to the departmental board.

Interim

Students may request that the examination is carried out in accordance with this syllabus even after it has ceased to apply. This right is limited, however, to a maximum of three occasions during a two-year-period after the end of giving the course. A request for such examination must be sent to the departmental board.

Limitations

The course may not be included in a degree together with the course Environmental Toxicology 5 p (BI1990) or the equivalent. A Bachelor degree from the Faculty of Science at Stockholm University may normally include a maximum of 15 hp (ECTS credits) from courses classified as “introductory” courses. Introductory courses may not be included among credits for a Master´s degree at the Faculty of Science, Stockholm University.

Misc

The course is given as an individual course.

Required reading

Course literature is decided by the departmental board and is described in an appendix to the syllabus.