



**Karolinska
Institutet**

Course syllabus for

Global Toxicology in a Sustainable Society, 4 credits

Global toxikologi i ett hållbart samhälle, 4 hp
This course syllabus is valid from autumn 2023.

Course code	4TX036
Course name	Global Toxicology in a Sustainable Society
Credits	4 credits
Form of Education	Higher Education, study regulation 2007
Main field of study	Toxicology
Level	AV - Second cycle
Grading scale	Pass with distinction, Pass, Fail
Department	Institute of Environmental Medicine
Decided by	Education committee IMM
Decision date	2023-03-06
Course syllabus valid from	Autumn 2023

Specific entry requirements

At least the grade pass on all courses on semesters 1 and 2 within the Master's Programme in Toxicology.

Objectives

Upon completion of the course, the student should be able to:

Regarding knowledge and understanding

- define the concept of sustainable development and analyze the Sustainable Development Goals (SDGs) in light of toxicological aspects
- explain the contribution of human activity to global environmental changes such as climate change, pollution and loss of biodiversity and how this affects human health now and in the future,
- give examples of system changes and solutions needed to promote sustainable development,

Regarding competence and skills

- identify toxicological problems from a global perspective, analyze underlying reasons and the

- relation to sustainable development,
- describe international legislations and policies for chemical safety and discuss their importance for promoting sustainable development,

Regarding judgement and approach

- identify and evaluate social and ethical aspects related to toxic chemicals and pollution from a global perspective,
- reflect on individual consumer behavior in relation to planetary boundaries and actions to promote sustainable lifestyles.

Content

This course includes knowledge and skills to promote sustainable development and highlights current and future health challenges including pollution and climate change. The course includes global perspective in toxicology including the importance of chemical safety for sustainable development and the role of toxicologists.

Teaching methods

The teaching includes lectures, assignments and oral presentation.

Examination

The examination consists of a written exam.

If there are special grounds, or a need for adaptation for a student with a disability, the examiner may decide to deviate from the syllabus's regulations on the examination form, the number of examination opportunities, the possibility of supplementation or exemptions from the compulsory section/s of the course etc. Content and learning outcomes as well as the level of expected skills, knowledge and abilities may not be changed, removed or reduced.

Compulsory participation

All presentations are compulsory. The examiner assesses if, and in that case how, absence can be compensated. Before the student has participated in all compulsory parts or compensated absence in accordance with the examiner's instructions, the student's results for respective part will not be registered. Absence from a compulsory activity may result in that the student cannot compensate the absence until the next time the course is given.

Transitional provisions

Other directives

The course language is English.

Literature and other teaching aids

Recommended literature

Haines, Andy

Planetary health : safeguarding human health and the environment in the Anthropocene / Andy Haines, Howard Frumkin. [electronic resource]

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ISBN:9781108698054 LIBRIS-ID:9prxkgtb7mgc5d2z

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Scientific publications and reports of relevance for the project.