



**Karolinska
Institutet**

Course syllabus for

Histopathology and Clinical Pathology, 5 credits

Histopatologi och klinisk patologi, 5 hp

This course syllabus is valid from autumn 2023.

Please note that the course syllabus is available in the following versions:

[Autumn2015](#) , [Autumn2016](#) , [Autumn2020](#) , [Autumn2023](#) , [Autumn2024](#)

Course code	4TX016
Course name	Histopathology and Clinical Pathology
Credits	5 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	Programnämnd 7
Decision date	2015-04-09
Revised by	Education committee IMM
Last revision	2023-03-06
Course syllabus valid from	Autumn 2023

Specific entry requirements

At least the grade Pass for the course Principles of toxicology within the Master's Programme in Toxicology.

Objectives

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

Regarding skills and ability

- identify and describe the normal appearance and structure of different tissues and organs,
- identify and describe pathological effects that may be caused by toxic substances,

Regarding judgement and approach

- differentiate between different pathological features and discuss possible toxicological modes of action involved in pathogenesis.

Content

Anatomy, histology, hematology and blood chemistry of relevance to toxicity testing. Structure and function of the liver and other toxicologically relevant organs. General and specific pathological changes that can be identified by clinical blood analyses and histological examination. Examples of toxicological effects by specific chemicals.

Teaching methods

Teaching will be in the form of lectures, seminars, written assignment, written feedback to other student and oral presentation.

Examination

The examination consists of written examination.

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 seminars and 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

Peckham, Michelle.

Histology at a glance

Chichester, West Sussex, UK : Wiley-Blackwell, 2011. - 108 p.

ISBN:978-1-4443-3332-9 LIBRIS-ID:12636373

[Library search](#)

Hayes, A. Wallace; Kruger, Claire L.

Hayes' principles and methods of toxicology

6. ed. : - xxvi, 2157 p.

ISBN:9781842145364 (hardcover : alk. paper) LIBRIS-ID:16954170

[Library search](#)

Handouts and other assigned literature.