



**Karolinska  
Institutet**

Course syllabus for

# **Histopathology and Clinical Pathology, 5 credits**

Histopatologi och klinisk patologi, 5 hp

This course syllabus is valid from autumn 2015.

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                 | Programme Committee 7                   |
| Decision date              | 2015-04-09                              |
| Course syllabus valid from | Autumn 2015                             |

## **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 competence and skills

- use a microscope in order to identify cell types and tissues in histological preparations,
- 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**

Mammalian 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 and microscopy exercises.

## Examination

The examination consists of written examination.

Compulsory participation

All seminars and practical demonstrations are compulsory. The course director 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 course director's instructions, the student's results will not be registered in LADOK.

## Transitional provisions

After each course, there will be at least 6 occasions for examination within a two-year period after the end of the course.

## Other directives

The course language is English.

Course evaluation will be carried out in accordance with the guidelines established by the Board of Higher Education.

Oral evaluation in the form of course council meetings will be carried out during the course.

## Literature and other teaching aids

### Mandatory 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.