



**Karolinska
Institutet**

Course syllabus for

Pathology, 4 credits

Patologi, 4 hp

This course syllabus is valid from autumn 2016.

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

Autumn2016 , [Autumn2017](#) , [Autumn2019](#) , [Autumn2021](#) , [Autumn2022](#)

Course code	3DC003
Course name	Pathology
Credits	4 credits
Form of Education	Higher Education, study regulation 2007
Main field of study	Medicine
Level	AV - Second cycle
Grading scale	Pass, Fail
Department	Department of Laboratory Medicine
Decided by	Education committee Labmed
Decision date	2016-05-13
Course syllabus valid from	Autumn 2016

Specific entry requirements

Qualification in biomedical laboratory science of 180 credits or Bachelor of Science in biomedical laboratory science of at least 180 credits. Furthermore, knowledge is required in Swedish and English equivalent to Swedish B and English A (with at least the Pass grade).

Objectives

The general aim of the course is that the students should provide knowledge of and understanding of disease mechanisms relevant for diagnostic cytology.

To pass the course, the student should be able to:

Knowledge and understanding

- Relate the causes and the effects of different cell adaptations, cell injuries and cell deaths to their relevance to cytologic diagnostics
- Evaluate the effects of inflammation and healing of tissue to the results of diagnostic cytology
- Summarise the mechanisms behind tumour development, tumour pathology and tumour classification and their relevance for diagnostic cytology in relation to normal cells and tissues
- Relate cell death, healing, inflammation, hyperplasia, metaplasia, dysplasia to cancer development

Skill and ability

- Histologically identify different cell types relevant for diagnostic cytology and account for their specialised functions
- Relate the received knowledge and the understanding to the development of diseases relevant for diagnostic cytology
- Independently be able to search and evaluate information about a selected disease relevant for diagnostic cytology, compile the material in writing and present the results orally

Judgement ability and approach

- Apply a scientific and reflecting attitude

Content

The course starts with different, for diagnostic cytology relevant, types of normal cells and tissues. Thereafter, general disease processes and their connection to development of diseases that are diagnosed with cytologic methods are treated. After survey of disease mechanisms, selected diseases relevant for diagnostic cytology are discussed.

During a project work the students will perform an in-depth study of diseases relevant for diagnostic cytology and present these.

Teaching methods

The teaching includes lectures and project work.

Examination

The course is examined through presentation of project work and a written examination.

Compulsory participation The project work is compulsory. The course coordinator assesses, how absence can be compensated.

Student who is not passed after the regular examination/examination session have the right to participate at further 5 examination sessions. If the student has carried out 6 failed examinations/tests no additional occasion will be given. An examination for which the student registered but not participated in is not counted as an examination.

Transitional provisions

Examination according to this syllabus will be provided during one year after the decision to terminate the course or revision of the syllabus.

Other directives

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

Literature and other teaching aids

Lakhani, Sunil R.

Basic pathology : an introduction to the mechanisms of disease

3. ed. : London : Arnold, 2003 - 296 s.

ISBN:0-340-81001-7 LIBRIS-ID:8885686

[Library search](#)

Stevens, Alan; Lowe, James

Pathology

2. ed. : Edinburgh : Mosby, 2000 - 656 s.

ISBN:0-7234-3160-4 (main ed.) LIBRIS-ID:8302893

[Library search](#)