



**Karolinska
Institutet**

Course syllabus for

Pathophysiology, 8 credits

Sjukdomslära, 8 hp

This course has been cancelled, for further information see Transitional provisions in the last version of the syllabus.

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

Autumn2013 , Spring2014 , Spring2017 , Spring2018

Course code	1RS053
Course name	Pathophysiology
Credits	8 credits
Form of Education	Higher Education, study regulation 2007
Main field of study	Not applicable
Level	GX - First cycle
Grading scale	Pass with distinction, Pass, Fail
Department	Department of Clinical Science, Intervention and Technology
Decided by	Programnämnd 6 (biomedicinska analytikerprogrammet och röntgensjuksköterskeprogrammet)
Decision date	2013-04-18
Revised by	Education committee CLINTEC
Last revision	2024-08-22
Course syllabus valid from	Spring 2018

Specific entry requirements

General admission requirements.

Objectives

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

- describe some global public health problem
- explain underlying prevention and causes i.e. aetiology and genesis mechanisms to diseases based on scientific grounds
- describe basic pathological conditions and how they influence the body function i.e. pathophysiology, in commonly occurring acute or chronic diseases and the symptoms for these disease
- based on the clinical picture give examples of diagnostic methods and treatments based on evidence
- account for laboratory analyses that can be related to future professional work

Content

The course starts with a global health perspective, where students are given the opportunity to discuss global health perspective. Based on the scientific evidence pathological condition is studied and the emphasis will be on diseases that can be diagnosed by a radiological clinic and diseases affecting the adult individual or are relevant to the care of the patient in conjunction with radiological examination. Pathological conditions in children that is common in a radiological department will also be discussed during the course. Within this course, musculoskeletal diseases, digestive system, urinary system, nervous system as well as the lungs, heart and blood vessels will be studied. Therewith studies about tumor diseases, endocrine diseases such as diabetes and pathological conditions of the thyroid will be included.

Teaching methods

Teaching is given through lectures, assignments and seminars.

Course coordinator assesses whether and if so how absence from compulsory education elements might be assessed. Before the student participated in the mandatory sessions according to instructions the final study results cannot be reported.

Examination

The course is examined through written individual examination. To pass the course, students must pass the mandatory elements such as study assignments and seminars.

Students who are not approved for regular examination has the right to participate in five examinations. Within the course three occasions will be given. One within the course, one during the following re-examination. The third opportunity is provided before start of the next semester, or in close connection to that. In certain cases, it is required that the student submits an exemption application before he/she get the results of his/her latest completed examination. Three more opportunities will be provided as described above when the course is run next time.

If the student has six examinations, no additional examination will be given. Each participating in one examination date counts as one occasion. Submission of blank exam counts as examination. Examination for which the student registered but not participating are not counted as examination.

Transitional provisions

This course has been canceled.

Other directives

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

Literature and other teaching aids

Basic pathology : an introduction to the mechanisms of disease.

Lakhani, Sunil R.; Finlayson, Caroline J.; Dilly, Susan A.; Gandhi, Mitesh

Fifth edition : Boca Raton : CRC Press, 2016. - 381 pages

ISBN:9781482264197 LIBRIS-ID:20051579

[Library search](#)*Hokland, Bjørn; Madsen, Steinar***Klinisk kemi och fysiologi***Björndahl, Lars; Kvist, Ulrik*

2., omarb. utg. : Stockholm : Natur och kultur, 1996 - 188 s.

ISBN:91-27-06467-0 LIBRIS-ID:8348361

[Library search](#)**Medical-surgical nursing : assessment and management of clinical problems***Lewis, Sharon Mantik; Bucher, Linda; Heitkemper, Margaret M.; Harding, Mariann*

10th edition. : St. Louis, Missouri : Elsevier, Inc, [2017] - 2 volumes

ISBN:9780323328524 LIBRIS-ID:19795457

[Library search](#)*Ericson, Elsy; Ericson, Thomas***Medicinska sjukdomar : patofysiologi, omvårdnad, behandling**

4., rev. och utök. uppl. : Lund : Studentlitteratur, 2012 - 752 s.

ISBN:978-91-44-07008-7 (inb.) LIBRIS-ID:12684167

URL: [Extra material](#)[Library search](#)*Järhult, Johannes; Offenbartl, Karsten***Kirurgiboken : vård av patienter med kirurgiska, urologiska och ortopediska sjukdomar***Wilhelmsson, Jan*

4., rev. och uppdaterade uppl. / b [illustrationer: AB Typoform/Jan Wilhelmsson] : Stockholm : Liber, 2006 - 604 s.

ISBN:91-47-05336-4 (inb.) LIBRIS-ID:10162746

URL: <http://www2.liber.se/bilder/omslag/100/4705336o.jpg>[Library search](#)*Brehmer-Andersson, Eva***Allmän patologi : en introduktion**

4. uppl. : Lund : Studentlitteratur, 2011 - 199 s.

ISBN:978-91-44-05584-8 LIBRIS-ID:12189853

[Library search](#)*Vilhelmsson, Andreas; Tengland, Per-Anders***Global folkhälsa : om livsvillkor, sjukdomar och social rättvisa**

1. uppl. : Lund : Studentlitteratur, 2016 - 295 s.

ISBN:9789144076942 LIBRIS-ID:19434544

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