



**Karolinska  
Institutet**

Course syllabus for

## **Radiology 2, 7.5 credits**

Röntgendiagnostik 2, 7.5 hp

This course syllabus is valid from autumn 2008.

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

[Autumn2007](#) , [Autumn2008](#) , [Autumn2009](#) , [Autumn2010](#) , [Autumn2011](#) , [Autumn2012](#) , [Spring2016](#) , [Autumn2016](#) , [Autumn2017](#) , [Autumn2018](#) , [Autumn2019](#) , [Autumn2021](#) , [Autumn2023](#) , [Autumn2024](#)

Course code	1RS006
Course name	Radiology 2
Credits	7.5 credits
Form of Education	Higher Education, study regulation 2007
Main field of study	Radiography
Level	G2 - First cycle 2
Grading scale	Pass with distinction, Pass, Fail
Department	Department of Clinical Science, Intervention and Technology
Decided by	Programnämnden för röntgensjuksköterskprogrammet
Decision date	2007-06-20
Revised by	Tiina Hellebring
Last revision	2008-08-19
Course syllabus valid from	Autumn 2008

## **Specific entry requirements**

To be qualified to a higher semester, it is required that the student has taken at least 15 credits from last semester, and all credits from previous semesters.

## **Objectives**

Be able to describe pathological changes and their position with an adequate medical terminology. Identify fractures, luxations and degenerative changes. Identify pathological processes in the abdomen and respiratory organs. Be able to identify anatomic structures and pathological processes in the central nervous system. Be able to understand and describe how contrast agents can contribute to the diagnostics in radiological studies. Analyse and review different scientific publications relevant to diagnostic radiology and give examples of methods for data collection that are important in the diagnostic field of knowledge.

## **Content**

In the course, pathology that may be made visible by means of radiographic methods in orthopaedics, urology, abdominal diagnostics, lungs and circulation, neurological and neurosurgical diseases, and paediatric diseases, are studied. Strong emphasis is placed on how this appears in radiographic images such as conventional X-ray images, computer tomography images, magnetic resonance images, in nuclear medical examinations and in ultrasound examinations. An important part is training the student in identifying and describing pathological changes. The course will also provide knowledge how contrast agents can contribute to the diagnosis in radiological studies.

## Teaching methods

The course is based on radiology referrals with medical history, questions and illustrative materials. The students work in study groups with this material. In each section, there are also a lectures.

## Examination

For a Pass grade in the course, active and approved participation in a study group work, and an approved individual examination, are required. In consultation with the examiner of the course, the student may get a complementary assignment in case of absence from a compulsory part. The student is entitled to a total of six test occasions to get passed. The course is given on three occasions. One within the course, one during the following re-examination. The third opportunity is provided before the beginning of the next semester, or in close connection to that. In some cases, it is required that the student submits an exemption application before he/she has the results of his/her latest completed examination. Three more opportunities are provided according to the same set-up when the course is given next time.

## Transitional provisions

The student may be examined under a previous syllabus within a year after the date when a close-down or major changes of the course was decided.

## 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

*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](#)

*Möller, Torsten B.0 77501; Reif, Emil*

**Pocket atlas of radiographic anatomy**

2. ed. rev. and enlarged : New York ;a Stuttgart : Thieme, 2000 - 374 s.

ISBN:3-13-784202-6 LIBRIS-ID:8279031

[Library search](#)

*Möller, Torsten B.; Reif, Emil*

**Pocket atlas of sectional anatomy : computed tomography and magnetic resonance imaging. n Vol. 1, p Head and neck**

3. ed., rev. and updated /b Torsten B. Moeller, Emil Reif : Stuttgart : Thieme, 2007 - ix, 264 s.  
ISBN:3-13-125503-X (GTV) LIBRIS-ID:10257344

[Library search](#)

*Möller, Torsten B.; Reif, Emil*

**Pocket atlas of sectional anatomy : computed tomography and magnetic resonance imaging. n Vol. 2, p Thorax, heart, abdomen and pelvis**

3. ed., rev. and updated : Stuttgart : Thieme, cop. 2007 - viii, 247 s.  
ISBN:3-13-125603-6 (GTV) LIBRIS-ID:10322889

[Library search](#)

**Radiologi**

*Aspelin, Peter; Pettersson, Holger*

1. uppl. : Lund : Studentlitteratur, 2008 - 848 s.  
ISBN:978-91-44-03887-2 (inb.) LIBRIS-ID:10948825

URL: <http://www.studentlitteratur.se/omslagsbild/artnr/31995-01/height/320/width/320/bild.jpg>

[Library search](#)

*Lisle, David A.*

**Imaging for students**

2. ed. : London : Arnold, cop. 2001 - 262 s.  
ISBN:0-340-76231-4 (pbk) LIBRIS-ID:8284493

[Library search](#)

*Mettler, Fred A.*

**Essentials of radiology**

2. ed. : Philadelphia, Pa. : Saunders, cop. 2005 - 416 s. b ill.  
ISBN:0-7216-0527-3 (hft.) LIBRIS-ID:9681659

[Library search](#)

*Wicke, Lothar*

**Atlas of Radiologic Anatomy**

7 : New Jersey : MediMedia, 2004 - 362  
ISBN:1929007-4-69

[Library search](#)