



Course syllabus for

## **Orthopaedic Radiology, 7.5 credits**

Ortopedisk radiologi, 7.5 hp

This course syllabus is valid from spring 2011.

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

[Spring2010](#) , [Spring2011](#) , [Autumn2011](#) , [Spring2012](#) , [Spring2013](#) , [Spring2018](#) , [Spring2022](#) , [Spring2025](#)

Course code	1RS035
Course name	Orthopaedic Radiology
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, Fail
Department	Department of Clinical Science, Intervention and Technology
Decided by	Programnämnden för Röntgensjuksköterskeprogrammet
Decision date	2009-10-16
Revised by	Programnämnd 6 (Biomedicinsk analytiker- och Röntgensjuksköterskeprogrammen)
Last revision	2011-02-23
Course syllabus valid from	Spring 2011

### **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**

redogöra för rörelseapparatusens uppbyggnad och fysiologi. account for the structure and physiology of the musculoskeletal system skeleton, account for orthopaedic diseases that can be diagnosed with radiological methods. explain the use of different modalities in pathological processes in the musculoskeletal system. identify anatomic structures on DT and HR images. identify pathological changes in the illustrative material. describe treatment principles and complications in different orthopaedic diseases. describe current research issues in orthopaedic radiology

### **Content**

In the course, the anatomy and physiology of the musculoskeletal system is treated. This also includes paediatric orthopaedics. The course also treats different modalities in diagnostic radiology, such as conventional radiology, computer tomography, MRT, ultrasound and nuclear medicine. The student is trained to identify normal anatomic structures and pathological processes in image materials of different modalities. Here, current research fields within orthopaedic radiology are also discussed. The course comprises an overview of treatment principles of orthopaedic diseases. This includes medical as well as surgical treatments, and the complications that may arise in connection with these.

## Teaching methods

The teaching in the course include lectures, group seminars, field studies and case presentations.

## Examination

The course is examined through an independent written examination. For a Pass grade in the course so that is required passed participation in seminar and passed independent written examination. 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. In Connections to the course three occasions will be given 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

*Möller, Torsten B.; Reif, Emil*

**Pocket atlas of sectional anatomy : computed tomography and magnetic resonance imaging. n Vol. 3, p Spine, extremities, joints**

Stuttgart : Thieme, cop. 2007- - ix, 334 s.

LIBRIS-ID:10446229

URL:

<https://lt.ltag.bibl.liu.se/login?url=http://www.thieme.com/SID2358701978210/ebooklibrary/flexibook/pulz> Extern access endast anställda och studenter vid LiU

*Persson, Björn M.; Wingstrand, Hans*

**Ortopedisk grundbok**

*Wiberg, Gunnar; Lyons, Lena*

Lund : Studentlitteratur, 2005 - 282 s.

ISBN:91-44-03702-3 LIBRIS-ID:9700671

[Library search](#)

*Reiser, Maximilian; Baur-Melnyk, Andrea; Glaser, Christian*

### **Musculoskeletal Imaging**

Stuttgart : Thieme publishing group, 2008 - 340 p

ISBN:9783131451613

[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](#)

*Sand, Olav*

### **Människokroppen : fysiologi och anatomi**

2. uppl. : Stockholm : Liber, 2007 - 544 s.

ISBN:9147084359 (inb.) LIBRIS-ID:10455726

[Library search](#)