



**Karolinska
Institutet**

Course syllabus for

Radiography - Clinical Education 1, 6.5 credits

Radiografi - verksamhetsförlagd utbildning 1, 6.5 hp

This course syllabus is valid from autumn 2017.

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

[Autumn2013](#) , [Autumn2015](#) , [Autumn2016](#) , [Autumn2017](#) , [Autumn2020](#) , [Autumn2024](#)

Course code	1RS052
Course name	Radiography - Clinical Education 1
Credits	6.5 credits
Form of Education	Higher Education, study regulation 2007
Main field of study	Radiography
Level	G1 - First cycle 1
Grading scale	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	2017-04-27
Course syllabus valid from	Autumn 2017

Specific entry requirements

The B of Ma, Sh A and Nk B (or Fy A, Ke A and Bi A).

Students who have failed the placement (VFU) or the equivalent as a consequence of demonstrating deficiencies in knowledge, skills or attitude so serious that the patient's safety or confidence in healthcare have been at risk is qualified for new placement only when the individual action plan has been completed.

Objectives

Student should be able to:

- explain the implication of professional secrecy within the health care
- explain basic principles and show projections for X-ray examinations based on proven experience
- explain the properties of the X-ray radiation and principles for radiation protection
- apply basic hygiene procedures in health care
- identify ethical issues and describe the importance of communication in the meeting with the

- patient
 - perform cardiopulmonary resuscitation and measures for airway obstruction according to guidelines of the Swedish council for cardiopulmonary resuscitation

Content

The purpose of this course is to prepare students for future clinical studies. This course provides an introduction to the radiological practice and radiographer radiography profession and as a subject.

In the meeting with the patient

- Caring

Initially, the student will be informed of the provisions regarding confidentiality in health care. The course also prepares the student to meet the patient in a safe and professional manner in clinical practice.

- Ethics and communication

The students are trained also in verbal and nonverbal communication with focus on conversation structure between users and providers. The ethical aspect in different situations and actions are also caught up and discussed in the group.

To protect oneself and the patient

- Hygiene

Students will practice during the course a hygienic practice to prevent the spread of infection.

- Radiation protection

The course also provides a theoretical basis for a radiation protection regarding patient and staff.

- Ergonomics and moving technology

During the course, students receive theoretical and practical knowledge of ergonomics and moving technology.

Projection radiography

Based on knowledge of anatomy and anatomical reference basic projection radiography are trained based on proven experience and ergonomically. The course also provides a practical basis for a radiation protection regarding patient and staff.

CPR

The student will also receive basic training in CPR and airways obstruction.

Medical measures

Based on the radiographers professional, students practice medical measures, such subkutan- and intramuskular injections while applying principles of hygiene with the patient and staff safe approach. The part is examined in the course Emergency and Disaster Medicine in semester 4.

RIS and PACS

The aim is that students will acquire the knowledge of the patient about the medical facility and the use of RIS and PACS in this context.

Teaching methods

The teaching methods vary between field studies in a radiological clinic, lectures, seminars and the teaching of methodology, where theory and practice are interleaved.

Examination

Compulsory parts that field studies, laboratory sessions, seminars and methodology training are included in the course. To pass participation in compulsory parts is required that the student has achieved the expected learning outcomes.

Compensation in case of absence in compulsory parts is determined by the course administration. In order to be examined on the practical elements, participation in methodology training and field studies are required. The student should also have acquired and signed the reception of information about professional secrecy.

The course is assessed through practical skills related to theoretical knowledge.

The student is given a possibility of, all in all, six examinations to get passed. In connection to the course three occasions will be given One within the course and two occasions, at the following re-examination opportunities. Three more opportunities are provided according to the same set-up when the course is given next time.

If the course is examined by a extern exam, or other assignments with deadlines, a latest submission date is given at the introduction of the course. In cases where a completion is required a new date for latest submission is set. If the requirements for submission are not fulfilled the student is given the opportunity to submit the exam or the assignment at the next time course is given. Reasons for not meeting deadlines may be taken under consideration by examiner.

The examiner may with immediate effect interrupt a student's placement, or the equivalent, if the student demonstrates such serious deficiencies in knowledge, skills or attitudes that patient safety or patient confidence in healthcare is at risk. When a placement is interrupted like this, it implies that the student fails in the current part, and that a placement opportunity is used.

Transitional provisions

The student has the opportunity to be examined under a previous course syllabus within a year after the date of the course was decided is closed-down or undergoes major changes.

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

Isaksson, Mats

Grundläggande strålningsfysik

2., [kompletterade och uppdaterade] uppl. : Lund : Studentlitteratur, 2011 - 330 s.

ISBN:9789144066196 LIBRIS-ID:11957596

[Library search](#)

Moeller, Torsten B.; Reif, Emil.

Pocket atlas of radiographic anatomy

3rd ed. : Stuttgart : Thieme, c2010 - xi, 388 p.

ISBN:978-3-13-784203-3 LIBRIS-ID:11934526

[Library search](#)

Möller, Torsten B.; Reif, Emild aut

Pocket atlas of radiographic positioning : including positioning for conventional angiography, CT, and MRI

2. ed. : Stuttgart ;a New York : Thieme, cop. 2009

ISBN:978-3-13-107442-3 (alk. paper) LIBRIS-ID:11290130

[Library search](#)

Vårdhandboken

Inera AB,

URL: [Länk](#)

Eide, Hilde; Eide, Tom

Omvårdnadsorienterad kommunikation : relationsetik, samarbete och konfliktlösning

Glad, Anette

2., [rev.] uppl. : Lund : Studentlitteratur, 2009 - 526 s.

ISBN:978-91-44-05331-8 LIBRIS-ID:11223908

[Library search](#)

Rönnberg, Lena

Hälso- och sjukvårdsrätt

3. uppl. : Lund : Studentlitteratur, 2011 - 368 s.

ISBN:978-91-44-05831-3 LIBRIS-ID:12118425

[Library search](#)