



**Karolinska
Institutet**

Course syllabus for

Emergency and Disaster Medicine, 6 credits

Akutsjukvård och katastrofmedicin, 6 hp

This course syllabus is valid from spring 2024.

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

Autumn2013 , Spring2017 , Spring2018 , Spring2019 , Spring2022 , Spring2024 , Spring2025

Course code	1RS055
Course name	Emergency and Disaster Medicine
Credits	6 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	2023-10-10
Course syllabus valid from	Spring 2024

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

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

- describe the organisation and preparedness of the society and the healthcare at larger accidents and disasters at a general level.
- explain for the care of acutely ill or injured person based on ABCDE.
- describe acute diseases, including, neurology thorax, abdomen, orthopaedics allergic conditions and burn and cold injuries.
- motivate measures in cases of urgent diseases.
- practically perform CRP as well as measures at respiratory stops and medical engineering measures that can arise
- understand mental reactions in connection with larger accidents and disasters

Content

The course in emergency care and disaster medicine has its focus on radiological activities and where such activities can become participating. Based on this the course is build on five themes:

1. Disasters

During this theme events where society's preparedness was put on a trial basis is treated. The theme discuss the current contingency plans and organizations that are found both in municipality, county council, state and health care.

2. Assess and handle acute- trauma patients

During this theme and based on a number of scenarios that can occur in X-ray units students are trained to systematically assess patient, based on ABCDE and during the theme also includes to be trained on to handle and move patients that are under serious traumas. Students are trained to handle and transfer patients who has been injured in serious accidents. The training will also enable the students to manage acute medical conditions such as anaphylactic reactions and other seriously patient situations. During the theme students are also given the opportunity to reflect on ethical aspects in encounters with patients and their relatives in acute situations, as well as to reflect their own and colleagues' reactions.

3. Trauma patients in X-ray units

During the theme lectures are given about the current "trauma patients" that can be seen in X-ray units in both orthopaedics, surgery, neurology and other specialities in health care.

4. Experiences at and around trauma and acute situations in X-ray units

During the theme, experiences made by radiographers in acute and trauma situations are presented and discussed. The questions are based on; what happened, what actions were taken, what was the result? Additionally, during this theme, the preparedness at X-ray units during emergency events is discussed.

5. Practical training

During the course, field studies are conducted at different acute care departments, such as trauma units.

Teaching methods

The working methods that are used during the course is lectures, skills training, seminars and field studies.

The course includes mandatory course sessions such as skills training, field studies and seminars.

The course coordinator assesses whether and how the absense from mandatory course sessions can be compensated for. This can entail that the student may not have the oppurtunity to redo the course session until the next session.

Examination

The course is assessed through an individual written examination. To pass course are required also participating on compulsory components were scenario training is one.

Student who do not pass the regular examination are entitled to five more occasions. In connection 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 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 implemented six failed examinations are given no additional examination. As examination, the times are counted when the student has participated in the same test. Submission of blank exam is counted as examination. Examination to which student registered but not participated be counted not as examination.

If there are special reasons, or need for adaptation for a student with a disability, the examiner may

decide to depart from the syllabus's regulations on examination form, number of examination opportunities, possibility of completion or exemption from compulsory educational elements, etc. Content and learning objectives as well as the level of expected skills, knowledge and abilities must not be changed, removed or lowered.

Transitional provisions

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

Other directives

Evaluation of the course will be carried out according to the guidelines that are established by the Committee for Higher Education.at Karolinska Institutet.

Literature and other teaching aids

Strömberg, Johan

Akutsjukvård

1. uppl. : Stockholm : Sanoma utbildning, 2012 - 312 s.

ISBN:978-91-523-1520-0 LIBRIS-ID:12453369

[Library search](#)

Katastrofmedicin

Lennquist, Sten

3., [omarb. och utvidgade] uppl. : Stockholm : Liber, 2009 - 448 s.

ISBN:978-91-47-08481-4 LIBRIS-ID:11289941

URL: [Omslagsbild](#)

[Library search](#)

Wikström, Jonas

Akutsjukvård : omvårdnad och behandling vid akut sjukdom eller skada

Tredje upplagan : Lund : Studentlitteratur, [2018] - 327 sidor

ISBN:9789144115771 LIBRIS-ID:22515792

[Library search](#)