

SYLLABUS

Medical Science in Anesthesia Care 7.5 credits M7003H

Medicinsk vetenskap inom anestesijukvård

Course syllabus admitted: Autumn 2024 Sp 1 - Present

**DECISION DATE
2024-02-13**

Medical Science in Anesthesia Care 7.5 credits M7003H

Medicinsk vetenskap inom anestesivård

Second cycle, M7003H

Education level	Grade scale	Subject	Subject group (SCB)
Second cycle	U G VG *	Medicinsk vetenskap	Medicine

Entry requirements

Selection

The selection is based on 30-285 credits

Course Aim

After completion of their course, the student should be able to:

- Account for illnesses/conditions among children and adults in anaesthesia care, and explain and report on their causes and treatment
- Analyse, reflect on and, in collaboration with medical expertise, assess and apply anaesthesia care in accordance with scientifically established methods
- Explain and assess fluid & electrolyte and acid-base balances
- Explain and understand basic intensive care
- Explain and account for cardiological conditions
- Explain and understand pharmacological principles regarding pharmaceuticals used in anaesthesia care
- Apply knowledge in quantitative research methods for data gathering and analysis in the field of anaesthesia care

This knowledge forms a basis for future nursing and placement courses and is a precondition for providing secure nursing and patient safety in your future profession as a nurse anaesthetist.

Contents

- Anaesthesia nursing administered to children and adults, including fluid & electrolyte and acid-base balance, intensive care and pharmacology.
- Acute pediatrics
- Acute respiratory failure
- Cardiology
- Scientific methodology

Realization

Each course occasion's language and form is stated and appear on the course page on Luleå University of Technology's website.

The contents of the course elements and its teaching methods are specifically tailored for the nurse anaesthetist profession. The teaching methods vary with individual studies, individual work or group work, lectures, simulation and seminars. Different working methods stimulate active knowledge acquisition, group discussions and reflection. Seminars and lab work constitute obligatory elements. As support for the individual studies the students are offered lectures via distance-spanning technology. The studies are carried out by means of detailed objectives and instructions which can be found in the study guide of the course.

Examination

If there is a decision on special educational support, in accordance with the Guideline Student's rights and obligations at Luleå University of Technology, an adapted or alternative form of examination can be provided. Examination for the course consists of an individual written exam, a take-home examination and/or a seminar.

Alternative examination formats may be used.

Unauthorized aids during exams and assessments

If a student, by using unauthorized aids, tries to mislead during an exam or when a study performance is to be assessed, disciplinary measures may be taken. The term "unauthorized aids" refers to aids that the teacher has not previously specified as permissible aids and that may assist in solving the examination task. This means that all aids not specified as permissible are prohibited. The Swedish version has interpretative precedence in the event of a conflict.

Remarks

This course is given for second-cycle studies. Study supervision is provided in the university's teaching platform

Transition terms

Replace H MV053.

Course offered by

Department of Health, Education and Technology

Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0020	Assignment report and/or seminar in scientific methods/statistics	U G#	1	Mandatory	A23	
0021	Patient case and/or simulation anesthesiology	U G#	0.5	Mandatory	A23	
0022	Exam Anaesthesia nursing	U G VG *	4.8	Mandatory	A24	
0023	Seminar and/or assignment report ECG, arrhythmias	U G#	1.2	Mandatory	A24	

Last revised

by Jenny Jäger, Director of Undergraduate Studies at the Department of Health, Education and Technology 2024-02-13

Syllabus established

Fastställd av prefekt vid Institutionen för hälsovetenskap 2007-05-15.