

SYLLABUS

Medical Science in Intensive Care 7.5 credits M7004H

Medicinsk vetenskap inom intensivvård

Course syllabus admitted: Autumn 2024 Sp 1 - Present

**DECISION DATE
2024-02-13**

Medical Science in Intensive Care 7.5 credits M7004H

Medicinsk vetenskap inom intensivvård

Second cycle, M7004H

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

Entry requirements

Bachelor Degree in Nursing
M7001H Medical Science in Prehospital Care, 7,5 credits
O7009H Nursing in Emergency Care, 7,5 credits

Selection

The selection is based on 30-285 credits

Course Aim

On completion of the course, the student should:

- Describe the diseases/ conditions that occur in intensive care, explain its causes and treatment
- Analyse, reflect on and, in collaboration with medical experts to assess and apply the intensive care under scientifically proven method
- Explain and evaluate the liquid electrolyte and acid-base balance
- Understand and explain basic anesthesiology
- Explain and describe the acute pediatrics care
- Explain and describe the cardiac disorders
- Explain and understand the pharmacological principles of drugs which occur in intensive care
- Apply knowledge of quantitative research methods for data collection and analysis in the area intensive care

This knowledge constitutes a basis for coming nursing and placement courses and is a precondition for giving safe and secure nursing care in the future profession as a nurse in intensive care.

Contents

- Intensive care including fluid electrolyte and acid-base balance, anesthesiology, acute pediatrics 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 content of course elements and its teaching methods specifically geared towards future profession as a nurse in intensive care. Teaching methods vary with the individual studies, individual work and collaboration in groups, lectures, practical sessions and seminars. Different working methods active knowledge acquisition, group discussions and reflection are stimulated. Seminar and practical parts are compulsory components. As support for the individual studies the students are offered lectures via distance-bridging technology. The studies are carried out by means of detailed objectives and instructions 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. The course is examined by written individual examination and seminar and/or take-home examination.

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 available in the university's learning management system.

Course offered by

Department of Health, Education and Technology

Modules

Code	Description	Grade scale	Cr	Status	From period	Title
0030	Assignment report and/or seminar in scientific methods/statistics	U G#	1	Mandatory	A23	
0031	Patient case and/or simulation intensive care	U G#	0.5	Mandatory	A23	
0032	Exam Intensive Care	U G VG *	4.8	Mandatory	A24	
0033	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

by Prefekt vid Institutionen för hälsovetenskap 2007-05-15