



Course syllabus

Faculty of Health and Life Sciences

Department of Chemistry and Biomedical Sciences

1VÅ087 Professionskunskap för biomedicinska analytiker, 7,5 högskolepoäng

1VÅ087 Knowledge of the biomedical scientist profession, 7.5 credits

Main field of study

Caring Science

Subject Group

Nursing Science

Level of classification

First Level

Progression

G1N

Date of Ratification

Approved 2015-12-21

Revised 2021-12-20 by Faculty of Health and Life Sciences.

The course syllabus is valid from spring semester 2022

Prerequisites

Specific entry requirements: Civics A, Science studies B (or Physics A, Chemistry A, and Biology A), or Civics 1b/1a1 + 1a2, Science studies 2 (or Physics 1a/1b1 + 1b2, Chemistry 1, and Biology 1).

Objectives

After completing the course, the student should be able to:

- take a professional approach towards patients and their loved ones during examinations and sampling and screening
- explain and perform hands-on examinations and analyses included in the course, practise proper infection control, and perform cpr with a defibrillator
- apply relevant laws and regulations on healthcare in specific care situations and patient cases
- assess and explain social, environmental, and economic sustainability in direct patient care
- explain fundamental concepts used in organisational and leadership theory, and utilise a simple model for quality improvement

- plan and deliver an oral presentation
- critically reflect on the benefits and challenges of eHealth.

Content

- Basic ethics, healthcare ethics, and professional ethics
- Communication and approach in examinations and screening and sampling
- ECG, capillary and venous sampling, mini-spirometry, blood pressure measurement, CPR with defibrillator, infection control
- Laws and regulations on healthcare of relevance to the profession
- Auscultation in healthcare settings, healthcare meetings
- Observational study with documentation, discussion, and comparison, as well as presentation
- Improvement work
- Presentation techniques
- Overview of digital information technology in care and healthcare, of relevance to the profession.

Type of Instruction

Teaching is delivered in the form of individual work, group work, auscultation at a hospital ward or clinic, laboratory work, skills training, lectures, and seminars. Participation in auscultation, laboratory sessions, and seminars is mandatory.

Examination

The course is assessed with the grades Fail (U), Pass (G) or Pass with Distinction (VG).

The course is examined through three written assignments, an oral examination in presentation skills, and a written examination. To pass the course, the course objectives must be achieved, and a passing grade must be obtained on the examination assignments, the oral examination, and the written exam. To receive the grade of Pass with Distinction, the student must have received this grade on all the examinations. A first resit examination is offered within six academic weeks after the regular examination.

Resit examination is offered in accordance with Local regulations for courses and examination at the first and second-cycle level at Linnaeus University. If the university has decided that a student is entitled to special pedagogical support due to a disability, the examiner has the right to adapt the exam or to let the student conduct the exam in an alternative way.

Course Evaluation

During or shortly after the course, a course evaluation should be conducted. The result and analysis of the course evaluation should be promptly communicated to the students who have taken the course. Students who are taking the course when it is offered the next time should be informed of the result at the course introduction. The course evaluation is anonymous.

Required Reading and Additional Study Material

Birkler, J. (The latest edition). *Etik- en grundbok*. Stockholm. Liber. 2021. 110 pages.

Heide M, Johansson C, Simonsson C. (The latest edition). *Kommunikation i organisationer*. Stockholm. Liber. 2021. 150 pages.

Fällman, B. (The latest edition). *Tala och engagera. Populär presentationsteknik*. Lund: Studentlitteratur. 20 pages.

<https://riksdagen.se/sv/>

<http://libguides.lnu.se/biomedicin/>

<http://www.vardhandboken.se>

<http://hlr.nu>

www.skr.se

www.vardforbundet.se

Training package for cardiopulmonary resuscitation (CPR) with a defibrillator

Research articles