COURSE SYLLABUS

Clinical Chemistry, Transfusion Medicine and Hematology Laboratory Methodology, Clinical practice, 12 credits

Klinisk kemisk, transfusionsmedicinsk och hematologisk laboratoriemetodik, tillämpade studier, 12 högskolepoäng

Course Code:	HKKK13	Education Cycle:	First-cycle level
Confirmed by:	Chairperson of the Educational Council Sep 25, 2012	Disciplinary domain:	Medicine
		Subject group:	BL1
Valid From:	Jan 21, 2013	Specialised in:	G1F
Version:	1		

Intended Learning Outcomes (ILO)

After the completed course the student should know within the areas below:

Knowledge and understanding

- report on theories behind generally occurring analyses and methods that are used within Clinical chemistry, Transfusion medicine and Hematology.

Skills and abilities

- plan and implement generally occurring laboratory methods as well as quality work
- collect, process and critically interpret results as well as observe and handle deviations
- in writing, report results based on scientific method
- show ability in teamwork and co-operation.

Judgement and approach

- exhibit the ability in having a professional approach toward patients and relatives
- evaluate laboratory reports connection to and consequences for the patient, his or her relatives and the care process
- observe and discuss ethical dilemmas.

Contents

- preanalysis, sample collection and handling
- routine analysis within the field of clinical chemistry, transfusion medicine and hematology
- evaluation of laboratory results
- maintenance, calibration and principles of instruments
- quality assurance within laboratory methods
- ethics

Type of instruction

The course consists of clinical education within different laboratory domains.

The teaching is conducted in English.

Prerequisites

Basic eligibility and completed courses of 30 cr within the main area of biomedical laboratory science included in the Biomedical Scientist Program or the equivalent

Examination and grades

The course is graded A, B, C, D, E, FX or F.

The course's examination consists of supervisor assessed clinical education and two individually written reports.

Examiner

The course exams are conducted by a university lecturer.

Registration of examination:

Name of the Test	Value	Grading
Examination	12 credits	A/B/C/D/E/FX/F

Other information

Guidelines about attendance

Compulsory attendance at clinical education within laboratory domains.

Temporary interruption of course

The School of Health Sciences may interrupt a student's participation in practice or clinical activity during an ongoing course that a student in practice has shown gross incompetence when he/she has applied his/her skills on people. A student whose practice has been discontinued because of gross incompetence may not participate in the course again before the course administrator or examiner has verified and approved that the student has the knowledge and skills that are needed. In conjunction with the decision on discontinuation, it should be indicated in the decision on which grounds the interruption is based. After the decision an individual plan should be established for the student in which should appear which lacks in knowledge and skill there are, which support the student can count on, how the verification will occur, when the first verification will take place and also when new verifications will take place.

Course literature

Bishop, M., Fody, E., & Scoeff, L. (2009). *Clinical Chemistry: Techniques, Principles and Correlations.* 6th ed. Lippincott Williams &Wilkins.

Daniles, G., & Bromilow, I. (2007). *Essential guide to blood groups.* Oxford: Blackwell Publishing Ltd.

Hoffbrand, A.V., Moss, P.A.H., & Pettit, J.E. (2006). *Essential Hematology.* Oxford: Blackwell Science.

International Federation of Biomedical Laboratory Science. (2010). Code of ethics for Biomedical

Laboratory Scientists. [Hämtad 2012-08-24]. http://www.ifbls.org/images/ifbls_docs/code_ethics.PDF
Scientific articles and method descriptions.

The latest edition of the course literature will be used.

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Department of Natural Science and Biomedicine