



**Karolinska
Institutet**

Course syllabus for

Clinical course 2 - Clinical Bacteriology, 7.5 credits

Klinisk kurs 2 - klinisk bakteriologi, 7.5 hp

This course has been cancelled, for further information see Transitional provisions in the last version of the syllabus.

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

Autumn2009 , Autumn2010 , Spring2013

Course code	1BA031
Course name	Clinical course 2 - Clinical Bacteriology
Credits	7.5 credits
Form of Education	Higher Education, study regulation 2007
Main field of study	Biomedical Laboratory Science
Level	G2 - First cycle 2
Grading scale	Pass, Fail
Department	Department of Laboratory Medicine
Decided by	Programnämnden för Biomedicinska analytikerprogrammet
Decision date	2009-04-22
Revised by	Programnämnd 6 (Biomedicinsk analytiker- och Röntgensjuksköterskeprogrammen)
Last revision	2010-04-22
Course syllabus valid from	Autumn 2010

Specific entry requirements

General entry requirements for higher education. In addition, special eligibility as stated in the programme syllabus for Biomedical laboratory science education, and completed courses from semesters 1-4, and Clinical course 1 from semester 5 in the Biomedical laboratory science education or the equivalent knowledge. Of these courses at least 105 credits from semesters 1-4 should be approved, including the course in Microbiology - methodology and diagnostics. Students who have failed the clinical placement or the equivalent as a consequence of demonstrating deficiencies in knowledge, skills or attitude so seriously that the patient's safety or confidence in healthcare have been at risk is qualified for new placement only when the individual action plan has been completed.

Objectives

The aim of the course is that the student in a laboratory with a specialisation in Clinical Bacteriology should get an opportunity to test/apply theoretical and practical knowledge by in a laboratory

environment by studying and using methods that occur in a laboratory with a specialisation in Clinical Bacteriology. The aim of the course is also to contribute to the development of an occupational identity, a reflective professional practice and an understanding of the occupation. On completion of the course, the student should independently be able to - plan, carry out analyses, explain underlying theories, and describe analysis principles, - assess the results from both a technical and a medical point of view, - identify those parts in the laboratory process that can influence the analytical result - describe how quality assurance is carried out in the clinic and what this work implies, - identify those parts that constitute a basis to satisfy the established quality requirements - explain the organisation and function of the laboratory within health care - At a general level, account for the ethical guidelines for Biomedical scientists.

Content

The student should, during the entire course, participate in practical work under supervision in a clinical bacteriological laboratory and there apply various methods and techniques that are used. The student should acquire knowledge of the steps in the laboratory process that may influence the result of the analysis. It implies that the student through practical work and theoretical studies acquire knowledge of analysis principles, technical performance and result assessment from a technical as well as medical point of view. The student should also acquire information about the quality assurance work that the laboratory conducts. The student should also acquire knowledge of the organisation and function of the laboratory in the health care. Literature studies should be included as an integrated part during the whole course. The student documents his/her work in a workbook that should be approved by the responsible supervisor in the laboratory. The workbook also constitutes a basis for the final examination. The following parts are included: Laboratory methodology, technically/practically within Clinical Bacteriology (3 HE credits). Methods in Clinical Bacteriology, practical training. Laboratory methodology, theory and quality assurance, (3 HE credits). Methods in Clinical Bacteriology, theory. Integration of theory and practical skills (1.5 HE credits). Integration of theory and practical training.

Methods in clinical bacteriology, practical training, 3.0 hp

Grading scale: GU

Methods in clinical bacteriology, theory, 3.0 hp

Grading scale: GU

Integration of theory and practical training, 1.5 hp

Grading scale: GU

Teaching methods

The student performs laboratory work in a laboratory with specialisation in clinical bacteriology and has access to an external expert supervisor in the laboratory and teachers from KI during that period. The documentation of the work takes place continuously in the form of a workbook, and literature studies are conducted in an integrated manner under instruction of the supervisor/teacher.

Examination

Compulsory attendance is required during the whole course. In case of absence, the supervisor in consultation with the teacher/director of studies at Karolinska Institutet determine how compensation should be done. The examination comprises several parts. The student's theoretical knowledge and technical ability is assessed by the responsible supervisor in the laboratory. The assessment provides a basis for grading Laboratory methodology, technically/practically and Laboratory methodology, theory.

and quality assurance. The workbook that the student writes during the course serves as the basis of the final examination of theory and practical skills (whole course). The final examination is oral and is made by a Karolinska Institutet appointed teacher in consultation with the responsible supervisor of the laboratory. The examiner may with immediate effect interrupt a student's clinical placement, or the equivalent, if the student demonstrates such serious deficiencies in knowledge, skills or attitudes that patient safety or patient confidence in healthcare is at risk. When a placement is interrupted like this, it implies that the student fails in the current part, and that a placement opportunity is expended. In such cases, an individual action plan should be set up showing which activities and examinations are required, before the student is given the possibility of a new placement in this course. A student who has failed the whole course has the opportunity to take the course once more. A student who has failed the final examination has the opportunity to five more examinations.

Other directives

Course evaluation will be carried out in accordance with the guidelines established by the Board of Education.

Literature and other teaching aids

Murray, Patrick R.; Rosenthal, Kenneth S. 319233; Pfaller, Michael A.

Medical microbiology

5. ed. : St. Louis : Mosby, cop. 2005 - x, 963 s.

ISBN:0-323-03303-2 LIBRIS-ID:9878822

[Library search](#)

Ringsrud, Karen Munson; Linné, Jean Jorgenson

Linné & Ringsrud's Clinical laboratory science : the basics and routine techniques

Turgeon, Mary L.

5. ed. /b [editor] Mary L. Turgeon : St. Louis, Mo. : Mosby Elsevier, cop. 2007 - xiv, 608 s.

ISBN:0-323-03412-8 LIBRIS-ID:10255799

[Library search](#)

Burnett, David; Crocker, John

The science of laboratory diagnosis

2. ed. : Chichester : Wiley, 2005 - 542 p.

ISBN:0-470-85912-1 (hbk.) LIBRIS-ID:9612133

[Library search](#)