



**Karolinska  
Institutet**

Course syllabus for

# **Applied Biomedical Laboratory Science 3, 7.5 credits**

Tillämpad biomedicinsk laboratorievetenskap 3, 7.5 hp

This course syllabus is valid from spring 2019.

Course code	1BA151
Course name	Applied Biomedical Laboratory Science 3
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	Education committee LABMED
Decision date	2018-10-30
Course syllabus valid from	Spring 2019

## **Objectives**

The aim of the course is that the student on a laboratory should obtain occasion to test/apply theoretical and practical knowledge by in laboratory environment study and use methods that occur on a laboratory. 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

Knowledge and understanding The student should be able to:

- show knowledge about relevant methods in the area and about relevant ordinances
- acquire knowledge via different sources, evaluate this critically and use existing knowledge to describe new relations in a professional context

Skills and ability The student should be able to:

- show ability to collect, process and interpret analysis critically- and research results, attention and deal with deviations and also oral and written reporting and discuss the results with concerned parties and in accordance with relevant ordinances document these
- show ability to teamwork and cooperation with other professional groups
- show ability to critically review assess and use relevant information and to discuss new facts, phenomena and issues with different groups and thereby contribute to development of the profession and the activities

- show ability to identify his need of additional knowledge and that continuous develop his skills
- show ability to independently identify formulate and solve problems and to implement assignments within given time frames
- handle technology to collect data and document these data systematic in a professional context
- analyse and process collected data a professional context

Assessment ability and attitudes The student should be able to:

- show ability to within the main field of study for the education make assessments considering relevant scientific, social and ethical aspects
- demonstrate an understanding of the own profession's role and importance for health care
- show ability to identify his the need of further knowledge and that continuous develop his skills

## Transitional provisions

Examination according to this syllabus will be provided during a year after a decision on close-down of the course or revision of the syllabus

## Other directives

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

## Literature and other teaching aids

*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](#)

*Daniels, Geoff; Bromilow, Imelda*

### **Essential guide to blood groups. Svenska : Blodgruppsserologi**

1 : Lund Studentlitteratur : Studentlitteratur, 2008 - 147

ISBN:9789144048086 LIBRIS-ID:10720564

[Library search](#)

### **Genetiska sjukdomar**

*Nordenskjöld, Magnus*

1. uppl. : Stockholm : Liber, 2011 - 326 s.

ISBN:978-91-47-09417-2 LIBRIS-ID:12280743

[Library search](#)

### **Klinisk immunologi**

*Truedsson, Lennart*

1. uppl. : Lund : Studentlitteratur, 2012 - 251 s.

ISBN:978-91-44-07426-9 LIBRIS-ID:12767140

[Library search](#)

*Nelson, David L.; Cox, Michael M.*

### **Lehninger principles of biochemistry**

*Lehninger, Albert L.*

4. ed. : New York : W.H. Freeman, cop. 2005 - 1119, [91] s.

ISBN:0-7167-4339-6 LIBRIS-ID:9372754

[Library search](#)

*Suvarna, S. Kim.; Layton, Christopher; Bancroft, John D.*

**Bancroft's theory and practice of histological techniques Theory and practice of histological techniques**

7th ed. : [Oxford] : Churchill Livingstone, c2013. - xiv, 637 p.

ISBN:978-0-7020-4226-3 (hbk.) LIBRIS-ID:13875981

[Library search](#)