



**Karolinska
Institutet**

Course syllabus for

From Atom to Organism, 3 credits

Från atom till organism, 3 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:

Autumn2011 , [Autumn2012](#) , [Autumn2013](#)

Course code	1BA057
Course name	From Atom to Organism
Credits	3 credits
Form of Education	Higher Education, study regulation 2007
Main field of study	Not applicable
Level	GX - First cycle
Grading scale	Pass with distinction, Pass, Fail
Department	Department of Laboratory Medicine
Decided by	Programnämnd 6 (Biomedicinsk analytiker- och Röntgensjuksköterskeprogrammen)
Decision date	2011-03-17
Course syllabus valid from	Autumn 2011

Specific entry requirements

General admission requirements.

Objectives

The student should acquire knowledge on how different components build cells and tissues, using man as model organism, as well as understanding on how these communicate to organize, control and maintain a tissue/organism. After passing the course the student should be able to synoptically describe: How life started, self-organization and biological organization. Molecular processes necessary for life, where these take place and their basic function. Structure and function for the cell and its organelles as well as cell events. How tissues are organized, constructed and maintained. How diseases develop in humans (introduction to general pathology). How failure at the molecular and/or cellular level can give rise to diseases at the organism level (integrated in the goals described above).

Teaching methods

Lectures, group work and compulsory seminars with supervisor.

Examination

A written examination completes the course. To pass the course the student need to pass the written examination and participate in compulsory moment. In case of absence an agreement concerning compensation is made between the student and the responsible teacher. One re-examination is given in connection to the course and during a re-examination week in August. Students who have not passed the regular examination are entitled to participate in five more examinations. If the student is not approved after four examinations, he/she is recommended to retake the course at the next regular course date and may, after that, participate in two more examinations.

Transitional provisions

Examination according to this syllabus will be provided during one year after decision to abolish 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 Education.

Literature and other teaching aids

Erlanson-Albertsson, Charlotte; Gullberg, Urban

Cellbiologi

2., [rev. och uppdaterade] uppl. : Lund : Studentlitteratur, 2007 - 350 s.

ISBN:978-91-44-04738-6 LIBRIS-ID:10532220

[Library search](#)

Lindskog, Bengt I.

Medicinsk miniordbok

Frank, Urban

6., [omarb. och utvidgade] uppl. : Stockholm : Nordiska bokh., 2003 - 492 s., xvi pl.-s. i färg

ISBN:91-516-0090-0 LIBRIS-ID:9362592

[Library search](#)

Malmquist, Jörgen

Engelsk-svensk biomedicinsk ordbok : med svensk-engelsk ordlista

Lund : Studentlitteratur, 2006 - 244 s.

ISBN:91-44-04233-7 LIBRIS-ID:10139206

URL: [Omslagsbild](#)

[Library search](#)

Concise medical dictionary Oxford concise medical dictionary

Martin, E. A.

8. ed. : Oxford : Oxford University Press, 2010. - 832 s.

ISBN:978-0-19-955714-1 (pbk.) LIBRIS-ID:11831006

[Library search](#)