BIOC01, Biology: Human Physiology, 15 credits

Biologi: Humanfysiologi, 15 högskolepoäng

First Cycle / Grundnivå

Details of approval

The syllabus was approved by on 2007-04-12 and was last revised on 2015-12-15 by Study programmes board, Faculty of Science. The revised syllabus applies from 2016-01-01, spring semester 2016.

General Information

The course is an optional first-cycle course for a degree of Bachelor of Science in Biology, and a compulsory first-cycle course for a degree of Bachelor of Science in Molecular Biology.

Language of instruction: Swedish

Main field of studies

<table>
<thead>
<tr>
<th>Field</th>
<th>Depth of study relative to the degree requirements</th>
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<tbody>
<tr>
<td>Molecular Biology</td>
<td>G1F, First cycle, has less than 60 credits in first-cycle course/s as entry requirements</td>
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<tr>
<td>Biology</td>
<td>G1F, First cycle, has less than 60 credits in first-cycle course/s as entry requirements</td>
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Learning outcomes

Knowledge and understanding

On completion of the course the student shall be able to:

- explain the structure and function of the human body
- account for the importance of homeostasis from cellular level to organism level, and the principles of inter- and intracellular signalling, neurophysiology, sensory physiology, and muscle physiology
- describe the various physiological processes of the body and how these are regulated, such as motor, endocrinological, cardiovascular, respiratory, renal,
gastrointestinal, metabolic, and reproductive.

- account for the regulation of metabolism and body temperature

**Competence and skills**
On completion of the course the student shall be able to:

- carry out simple physiological laboratory tasks and exercises
- be able to collaborate in a group and communicate knowledge about the subject orally

**Judgement and approach**
On completion of the course the student shall be able to:

- critically analyse problems related to human physiology and apply the acquired knowledge to solve these

**Course content**
The human body is studied from a functional perspective. General principles of the structure and function of organs and tissues, and general control mechanisms, are addressed. The structure, function, and control are highlighted for each studied organ system. The teaching is linked to current research on the subject.

**Course design**
The teaching consists of teacher-supervised group studies, lectures, and laboratory sessions, in which dissections may be included, with associated laboratory reports. Group studies constitute an essential part of the course. Participation in the group studies and laboratory sessions (except for dissections) is compulsory.

**Assessment**
The examination takes place through a written examination at the end of the course, and through approval of the compulsory parts. For students who have not passed the regular examination, an additional examination in close connection to this is offered. *Subcourses that are part of this course can be found in an appendix at the end of this document.*

**Grades**
Marking scale: Fail, Pass, Pass with distinction.
To pass the entire course, approved examination and approved compulsory parts are required. The final grade is based on the written examination.
Entry requirements

For admission to the course, knowledge corresponding to MOBA01 Cell Biology 15 credits, and BIOA01 Genetics and Microbiology 15 credits, is required.

Further information

The course may not be included in a degree together with BIO577 Human Physiology 15 credits.
Subcourses in BIOC01, Biology: Human Physiology

Applies from H13

0711  Theory, 10.0 hp
       Grading scale: Fail, Pass, Pass with distinction

0712  Laboratory Work, 5.0 hp
       Grading scale: Fail, Pass

Applies from H07

0701  Human Physiology, 15.0 hp
       Grading scale: Fail, Pass, Pass with distinction