

Course size (nominal values; actual values may depend on programme)

Credits	8.0	Study time	240 h	Contact hrs	50.0 h
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Course offerings and teaching methods in academic year 2018-2019

A (semester 1)	Dutch	guided self-study	5.0 h
		lecture	45.0 h

Lecturers in academic year 2018-2019

Van de Voorde, Johan	GE09	lecturer-in-charge
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Offered in the following programmes in 2018-2019

	crdts	offering
Linking Course Master of Science in Health Education and Health Promotion	8	A

Teaching languages

Dutch

Keywords

Physiology, pathophysiology, organs, body systems, targets for drugs.

Position of the course

This course highlights the functional structures (anatomy) and the mechanisms involved in the normal functioning (physiology) of the human body and the consequences of common dysfunction of the body systems (pathophysiology). Much attention is given to potential drug targets.

Contents

This course deals with the structure and function of several body systems, more specifically the cardiovascular system, blood, respiration and pulmonary system, gastro-intestinal system and renal system. As much as possible links are made to targets of drugs acting on these systems. The chapters also deal with topics on pathophysiological concepts responsible for the most common diseases and aspects of health education are included.

Initial competences

Comply with the requirements to enter this year of training.

Final competences

- 1 integrate knowledge of general principles in physiology (f.e. membrane potential, ion channels, communication through the nervous and endocrine systems).
- 2 integrate knowledge on cardiovascular function and to link this knowledge with pathological situations and cardiovascular adaptations to special situations (f.e. exercise).
- 3 integrate knowledge on respiratory function and to link this knowledge with pathological situations and respiratory adaptations to special situations (f.e. exercise, stay at high altitude).
- 4 associate knowledge of the function of the different blood cells with problems such as bleeding, allergy, anemia.
- 5 integrate knowledge on gastro-intestinal function and to link this knowledge with pathological situations and uptake of food elements and drugs in the organism.
- 6 integrate knowledge on renal function and to link this knowledge with homeostasis of Na⁺ and water and the function of diuretics.

- 7 understand common medical terminology.
- 8 integrate knowledge on diabetes mellitus

Conditions for credit contract

Access to this course unit via a credit contract is determined after successful competences assessment

Conditions for exam contract

This course unit cannot be taken via an exam contract

Teaching methods

Guided self-study, lecture

Learning materials and price

A syllabus is available. Price: about 10 €.

Presentations used in the lectures are available on the electronic learning platform.

References

"Principles of Anatomy and Physiology" (Tortora and Derrickson), 14th edition.

"Pathophysiology" (Copstead and Banasik), 3th edition.

Course content-related study coaching

Students have different possibilities to ask questions, both individually and in group: before or after the classes or on appointment. Small numbers of questions can also be answered by e-mail. For larger numbers the student should make an appointment.

Evaluation methods

end-of-term evaluation

Examination methods in case of periodic evaluation during the first examination period

Written examination with multiple choice questions

Examination methods in case of periodic evaluation during the second examination period

Written examination with multiple choice questions

Examination methods in case of permanent evaluation

Possibilities of retake in case of permanent evaluation

not applicable

Calculation of the examination mark

100 % of the score is based on multiple choice questions, using the principle of standard setting.