

SJSB41, The Human Being - Biology and Health, 19.5 credits

Människan - Biologi och hälsa, 19,5 högskolepoäng

First Cycle / Grundnivå

Details of approval

The syllabus was approved by The Nursing, Radiography, and Reproductive, Perinatal and Sexual Health Programmes Board on 2020-04-02 and was last revised on 2021-02-08. The revised syllabus comes into effect 2021-02-08 and is valid from the spring semester 2021.

General information

The course is included as a compulsory component of the Bachelor's programme in Nursing comprising 180 credits, but is also offered as a freestanding course. The course complies with the guidelines of the Higher Education Ordinance (SFS 1993:100).

Language of instruction: Swedish

Some course components may be in English.

*Main field of
study*

Specialisation

Medicine

G1N, First cycle, has only upper-secondary level entry requirements

Learning outcomes

Knowledge and understanding

On completion of the course, students shall be able to

- give an account of the microscopic and the macroscopic anatomy
- give an account of the structure of the cell and explain the properties of the cell structures that are relevant for the integrity and functions of the cell
- give an account of the physiological processes in the organ systems of the body
- describe basic pain physiology processes

- identify factors that influence water, electrolyte and acid-base balance in relation to the function, distribution and transfer of water and electrolytes in the body
- explain the importance of the immune system for human health
- give an account of commonly occurring microorganisms and how they spread and affect health and illness, including nosocomial infections
- give an account of general pharmacological concepts regarding dynamics kinetics, interactions, side effects and the link between them as well as describe efficacy variations in drug treatments
- describe different methods of administration and dosage forms for drugs.

Competence and skills

On completion of the course, students shall be able to

- use medical terms and concepts in a relevant way
- use FASS and be able to explain the laws and regulations governing the nurse's work on safe drug management
- apply regional and national guidelines and procedures relating to hygiene practices in healthcare and the prevention of disease transmission
- analyse normal variations and deviations in body temperature, pulse rate, respiration, oxygen saturation and blood pressure and relate these to different ages in the life cycle.

Course content

Anatomy and physiology

- Cells and tissues
- Basic genetics
- The nervous system and sensory organs
- The endocrine system
- The musculoskeletal system
- The circulatory system
- The blood and coagulation system
- The immune system
- The respiratory system
- The digestive system
- Renal function and urinary tract
- The fluid and acid-base balance
- The reproductive system

General pathophysiology

Microbiology and hygiene

General pharmacology

Course design

The following working methods are used: Individual work, group assignment, peer review, seminars and lectures.

Assessment

All assessment is carried out individually, based on established criteria. One regular exam and two resits are organised for each exam/course component. Students who do not achieve a Pass grade during any of these instances have the opportunity to take additional examinations. Students who fail in two examination sessions can request a change of examiner. In the case of a resit, an individual exam may replace a group exam.

The examiner, in consultation with Disability Support Services, may deviate from the regular form of examination in order to provide a permanently disabled student with a form of examination equivalent to that of a student without a disability.

Grades

Grading scale includes the grades: Fail, Pass

For a grade of Pass, the student must pass all exams/course components.

Entry requirements

General and courses corresponding to the following Swedish Upper Secondary School Programs: Mathematics 2, Science 2, and Social Studies 1b/1a1+1a2. (Biology 1+Chemistry 1+Physics 1a/1b1+1b2 equals Science 1+2)

Further information

The courses are carried out in the order they are given.

Transition provisions

Passed assessed components in SJSH11 - The Human Being - Biology and Health, 19 credits, VGSSK, the Nursing programme, has corresponding content and can, following the granting of an application, be credited as follows:

- 1801 Anatomy, normal physiology, pathophysiology and microbiology, 7.5 credits
(corresponds to 2001 Anatomy, normal physiology, pathophysiology and microbiology, 7.5 credits)
- 1802 Anatomy, normal physiology and pathophysiology, 5.5 credits
(corresponds to 2002 Anatomy, normal physiology and pathophysiology, 6 credits)
- 1803 Microbiology and hygiene, 1.5 credits
(corresponds to 2003 Microbiology and hygiene, 1.5 credits)
- 1804 General pharmacology, 3 credits
(corresponds to 2004 General pharmacology, 3 credits)
- 1805 Vital parameters, 1.5 credits
(corresponds to 2005 Vital parameters, 1.5 credits)