UNIVERSITY OF SKÖVDE

TRANSLATION FROM SWEDISH

COURSE SYLLABUS

Human Physiology and Metabolism G1F

15 credits

Course code: BM304G
Version number: 5.1
Valid from: 1 July 2026
Ratified by: Curriculum Committee for Health Sciences
Date of ratification: 29 June 2026

1. General information about the course

The course is provided by the University of Skövde and is named Human Physiology and Metabolism G1F (Humanfysiologi och metabolism G1F). It comprises 15 credits and is a first-cycle course. The level of progression is G1F.

The course is a part of the main field of study in Biomedicine. The disciplinary domain of the course is Natural Sciences.

2. Entry requirements

The course has the following entry requirements: 20 passed credits in one or some of the subjects of Biomedicine, Bioscience or Chemistry of which KE118G Laboratory Basic Course G1N must be passed (or the equivalent).

3. Course content

The course contains the basics of human physiology with a focus on organ systems and its regulation. The macro- and microanatomy of the body is covered to such an extent as is considered necessary for the understanding of the physiological processes. Furthermore, basic metabolism is also studied. Laborations within physiology include simpler blood tests and physiological tests with an emphasis on metabolic functions. Furthermore, how life processes are controlled at the organ level and whole-body level is also included in the course.

4. Objectives

After completion of the course, the student shall be able to:

- describe the structure and function of the body's tissues, nervous system, sensory organs, and the endocrine system
- describe the structure and function of the musculoskeletal system, circulatory system, and the respiratory system
- describe the structure and function of the kidneys and urinary tract as well as fluid and electrolyte balance, the reproductive organs, the digestive system, growth and metabolism, and the uptake of nutrients
- explain the connection between biological processes and physiological systems in the healthy human
- identify and name relevant anatomical structures
- perform laboratory work in a safe and professional manner
- compile, interpret, draw conclusions and present results from laborations

5. Examination

The course is graded A (Excellent), B (Very good), C (Good), D (Satisfactory), E (Sufficient) or F (Fail).

The final grade is issued first when all examinations have reached at least grade E/G (Pass).

The grades from the supervised written examinations 1, 2 and 3 are combined equally in the final grade (A=5,..., E=1), resulting in the following final grade: A 5-4,5; B 4,4-3,5; C 3,4-2,5; D 2,4-1,5 och E 1,4-1.

The examinations of the course consist of the following modes of assessment:

- **Supervised written examination 1**
  3 credits, grades: A/B/C/D/E/F
- **Supervised written examination 2**
  3 credits, grades: A/B/C/D/E/F
- **Supervised written examination 3**
  3 credits, grades: A/B/C/D/E/F
- **Individual assignment**
  3 credits, grades: G/U
- **Laboratory assignments**[1]
  3 credits, grades: G/U

[1] Examination of the laboratory assignments includes a dugga. The dugga aims to ensure the student has the necessary knowledge of the safety routines for the laboratory work as well as has sufficient theoretical knowledge to be able to perform laboratory in a professional manner. To be allowed to participate in the laboratory work the student must first pass the dugga.

Students with a permanent disability who have been approved for directed educational support may be offered adapted modes of assessment.

6. Types of instruction and language of instruction

The teaching is comprised of lectures, group assignments, laboratory sessions and presentations.

The teaching is conducted in English.

7. Course literature and other educational materials

Silverthorn, D. (2026). *Human physiology: An integrated approach, global edition* (9th ed.). Harlow: Pearson Education. ISBN 9781292540542.

Scientific articles may be added.

Latest edition of the course literature shall be used.

8. Student influence

Student influence in the course is ensured by means of course evaluation. The students are informed about the results of the evaluation and potential measures that have been taken or are planned, based on the course evaluation.

9. Additional information

Further information about the course, as well as national and local governing documents for higher education, is available on the website of the University of Skövde.