UNIVERSITY OF SKÖVDE

TRANSLATION FROM SWEDISH

COURSE SYLLABUS

Genetics G1N

7.5 credits

Course code: BM136G
Version number: 9
Valid from: 1 January 2026
Ratified by: Curriculum Committee for Health Sciences
Date of ratification: 28 May 2025

1. General information about the course

The course is provided by the University of Skövde and is named Genetics G1N (Genetik G1N). It comprises 7.5 credits and is a first-cycle course. The level of progression is G1N.

The course is a part of the main field of study in Biomedicine. It can also be a part of the main field of study in Bioscience. The disciplinary domain of the course is Natural Sciences.

2. Entry requirements

General entry requirements.
Additional requirements: Mathematics 2a or 2b or 2c, Science studies 2, English 6
Or:
Mathematics level 2a or level 2b or level 2c, Science studies level 2, English level 2.

The level of English proficiency is normally shown by an internationally recognized language test, e.g. IELTS or TOEFL.

3. Course content

The course comprises an overview of classical, molecular and population genetics, the three main parts of genetics.

4. Objectives

After completed course, the student should be able to:

- explain principles for inheritance and interpretation of pedigree, and apply related calculation models,
- explain mitosis, meiosis, recombination and linked genes, and calculate the effect of linked genes on the next generation by using related calculation models,
- explain the main concept as well as the use of simpler models in population genetics, and
- describe ethical apects of genetics and genetic analysis.

5. Examination

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

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

- **Supervised written examination**
  4 credits, grades: A/B/C/D/E/F (determines the final grade)
- **Laboratory assignments**
  2.5 credits, grades: G/U
- **Group assignment**
  1 credit, grades: G/U

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 comprises lectures, digital laboratory sessions, group work and exercises.

The teaching is conducted in English.

7. Course literature and other educational materials

Campbell, N. A. et al. (2020). *Biology: A Global Approach* (12th ed.). Harlow: Pearson Education Limited. ISBN 9781292341637.

Latest edition of the course literature should 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.