UNIVERSITY OF SKÖVDE

TRANSLATION FROM SWEDISH

COURSE SYLLABUS

Cell Biology G1N

7.5 credits

Course code: BV108G
Version number: 8.1
Valid from: 1 July 2026
Ratified by: Curriculum Committee for Bioscience
Date of ratification: 25 September 2025

1. General information about the course

The course is provided by the University of Skövde and is named Cell Biology G1N (Cellbiologi 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 Bioscience. It can also be a part of the main field of study in Biomedicine. 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 (or the equivalent).

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

3. Course content

The course will provide basic knowledge in cell biology. The course will cover the build-up of cells, DNA and proteins together with processes that are important for cell function, e.g. transport across membranes, cell signaling and energy metabolism.

4. Objectives

After completed course the student should be able to:

- describe the structure and function of macromolecules in the cell,
- describe the build-up of the cell and the function of the organelles as well as how cells obtain energy,
- describe how the cell communicates and what occurs during signal transduction,
- describe the process from gene to protein,
- orally and in writing describe basic cell- and molecular biological information and problems individually as well as in groups, and
- carry out basic laboratory tasks.

5. Examination

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

A final grade of the course is only issued when all the examination parts have been passed.

The examination Laboratory assignment involves a dugga. The purpose of the dugga is to ensure that the student has the required knowledge regarding safety surrounding the laboratory work. The dugga also secure that the student can perform the laboration in an occupational workmanlike manner. The student must pass the dugga in order to be able to participate and complete the laboration.

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

- **Supervised written examination**
  5.5 credits, grades: A/B/C/D/E/F (determines the final grade)
- **Seminar assignment**
  0.5 credit, grades: G/U
- **Laboratory assignment** [1]
  1.5 credits, grades: G/U

[1] The laboration is mandatory.

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 and laboratory sessions.

Depending on the study period, the language of instruction may be Swedish or English. Even if the teaching is conducted in Swedish, some English may still occur.

7. Course literature and other educational materials

Campbell, N. A., Urry, L. A., Wasserman, S. A., Minorsky, P. V., Cain, M. L. & Orr, R. B. (2020). *Biology: a global approach* (12th ed.). Pearson Education Limited. ISBN 9781292341637.

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.