UNIVERSITY OF SKÖVDE

TRANSLATION FROM SWEDISH

COURSE SYLLABUS

Evolution G1N

7.5 credits

Course code: BV122G
Version number: 3
Valid from: 1 January 2026
Ratified by: Curriculum Committee for Bioscience
Date of ratification: 22 May 2025

1. General information about the course

The course is provided by the University of Skövde and is named Evolution G1N (Evolution 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. 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 demonstrated by an internationally recognized language test, e.g. IELTS or TOEFL.

3. Course content

The course presents a basic orientation of the theory of evolution, its main features and historical background. It covers evolutionary mechanisms, speciation, the evolutionary history of organisms (incl. human evolution), theories of the origin of life and evolution of the cell and discusses the scientific support for the theory of evolution. The course also comprises knowledge on how to analyze the evolutionary relationship among species using the cladistic method and gives an evolutionary perspective on basic morphology, physiology and life history characteristics of organisms.

4. Objectives

After completed course the student should be able to:

- explain evolutionary mechanisms (such as adaptation, fitness, mutations, genetic drift, migration) as well as different types of selection, and discuss their relevance for the process of evolution,
- describe main features in the evolutionary history of organisms (including the evolution of humans) and theories about the origin of life and evolution of the cell,
- explain principles of speciation as well as the cladistic method of creating evolutionary (phylogenetic) trees,
- describe how the view of species and their (in)variance over time has changed historically,
- discuss the scientific support for the theory of evolution,
- give an evolutionary perspective on basic morphology, physiology and life history characteristics of organisms,
- read, understand and give oral presentation of scientific articles with the course subject area.

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

- **Supervised written examination**
  4.5 credits, grades: A/B/C/D/E/F (determines the final grade)
- **Written assignment**
  1 credit, grades: G/U
- **Seminar assignment**
  1 credit, grades: G/U
- **Project presentation**
  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 is comprised of project work, lectures, seminars/group discussions and exercises.

Field excursion are also included.

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.

Additional literature, such as scientific articles, may be added and will be provided by the course instructor.

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

The content of the course corresponds completely or partially with the following course(s) and cannot be included in the required credits of a degree qualification:

- EK115G - Biological Life Forms and Evolution G1N 15 credits
- BV301G - Evolution G1F 7.5 credits
- BV314G - Evolution G1F 7.5 credits

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.