



Faculty of Health, Science and Technology  
Biology

# Syllabus

## Evolution

<b>Course Code:</b>	BIGC14
<b>Course Title:</b>	Evolution <i>Livets utveckling och mångfald</i>
<b>Credits:</b>	15
<b>Degree Level:</b>	Undergraduate level
<b>Progressive Specialisation:</b>	First cycle, has at least 60 credits in first-cycle course/s as entry requirements (G2F)

**Major Field of Study:**  
BIA (Biology)

### Course Approval

The syllabus was approved by the Faculty of Health, Science and Technology 2019-09-02, and is valid from the Autumn semester 2020 at Karlstad University.

### Prerequisites

60 ECTS credits in Biology with 45 ECTS credits completed including Ecology 12 ECTS credits, or equivalent

### Learning Outcomes

Upon completion of the course, students should be able to:

- give an account of different biological processes forming organisms and giving rise to speciation,
- give an account of the genetic basis for evolution through natural selection,
- explain how organisms adapt to their native environment,
- illustrate human impact on evolutionary processes, and
- use and explain the evolution theory to different audiences.

**Content**

The course deals with evolutionary processes in populations, macro evolution and speciation, extinction and biogeographical patterns, and evolution at the molecular level. Instruction is in the form of lectures, seminars, an individual assignment consisting of an overarching question to be answered in writing with reference to course literature, and other written assignments completed and handed in throughout the course.

**Reading List**

See separate document.

**Examination**

Assessment is based on a written exam, participation in seminars, and an individual written assignment.

If students have a decision from Karlstad University entitling them to special pedagogical support due to a documented disability, the examiner has the right to give such students an adapted examination or to examine them in a different manner.

**Grades**

One of the grades Fail (U), Pass (G), or Distinction (VG) is awarded in the examination of the course.

**Quality Assurance**

Follow-up relating to learning conditions and goal-fulfilment takes place both during and upon completion of the course in order to ensure continuous improvement. Course evaluation is partly based on student views and experiences obtained in accordance with current regulations and partly on other data and documentation. Students will be informed of the result of the evaluation and of any measures to be taken.

**Course Certificate**

A course certificate will be provided upon request.

**Additional information**

The local regulations for studies at the Bachelor and Master levels at Karlstad University stipulate the obligations and rights of students and staff.