

# Syllabus

for course at first level

**Early Childhood Education focusing on Science and Education for Sustainability**

**12.0 Higher Education Credits**

**Förskoledidaktik med inriktning mot naturvetenskap och hållbar utveckling**

**12.0 ECTS credits**

|                          |  |
|--------------------------|--|
| <b>Course code:</b>      | UB313F   |
| <b>Valid from:</b>       | Spring 2018  |
| <b>Date of approval:</b> | 2018-03-07   |
| <b>Department</b>        | Department of Child and Youth Studies  |
| <b>Main field:</b>       | Early Childhood Education  |
| <b>Specialisation:</b>   | G2F - First cycle, has at least 60 credits in first-cycle course/s as entry requirements |

## Decision

This syllabus was adopted by the Head of the Department of Child and Youth Studies on 2018-03-07 in accordance with the current delegation of authority.

## Prerequisites and special admittance requirements

60 higher education credits in teacher education, social sciences, natural sciences and/or the humanities (or equivalent). English B/English 6 (Swedish upper secondary school course) or equivalent.

## Course structure

| Examination code | Name                                    | Higher Education Credits |
|------------------|---|--------------------------|
| MOM1             | Early Childhood Educational perspective | 8                        |
| MOM2             | Subject learning and teaching           | 4                        |

## Course content

Course module *Early Childhood Educational Perspective on Science and Education for Sustainability*, 8 credits

The following topics are covered in the course module:

- scientific exploration in preschools using project-based work, aesthetic forms of expression and outdoor teaching activities;
- sustainable development from the perspective of early childhood education;
- the teaching environment and the significance of materials for children's scientific exploration and meaning-making;
- pedagogical documentation as a tool for highlighting children's thoughts and ideas about scientific phenomena and sustainable development;
- communicating science and sustainability by means of aesthetic expressions, play and digital tools.

Course module *Subject Learning and Teaching on Science and Education for Sustainability*, 4 credits

The following topics are covered in the course module:

- basic scientific and technological terminology, models and theories, with a special focus on ecology, natural cycles and sustainable development;
- basic terminology concerning chemical processes and physical phenomena;
- learning for sustainable development and different forms of participation;

- outdoor didactic approaches with focus on science.

### **Learning outcomes**

In order to pass the course module *Early Childhood Educational perspective on Science and Education for Sustainability*, 8 credits

students are expected to be able to:

- plan, carry out, document and evaluate projects with a focus on science and sustainable development in preschool;
- use pedagogical documentation to evaluate and develop the teaching of science and sustainable development in preschool;
- use aesthetic forms of expression, play and digital tools to communicate science, technology and sustainability issues in educational contexts.

In order to pass the course module *Subject Learning and Teaching on Science and Education for Sustainability*, 4 credits

students are expected to be able to:

- give an account of a specialised subject content in science and sustainable development from an early childhood educational perspective;
- use relevant theories and terminology to identify and analyse children's exploration of science and sustainability in everyday life.

### **Education**

Instruction is given in the form of lectures, seminars, supervision sessions, laboratory work, and excursions, as well as via the university's virtual learning environment.

### **Forms of examination**

#### *a) Forms of examination*

Course module *Early Childhood Educational Perspective on Science and Education for Sustainability*, 8 credits is examined on the basis of:

- Individual paper, grading A-F.
- Individual oral presentation, G = Pass U = Fail

Course module *Subject Learning and Teaching on Science and Education for Sustainability*, 4 credits is examined on the basis of:

- Individual paper, grading G = Pass U = Fail.

#### *b) Grading*

The final course grade will be set according to a seven-point scale related to the learning objectives of the course:

A = Excellent

B = Very good

C = Good

D = Satisfactory

E = Adequate

Fx = Fail, some additional work needed

F = Fail, much additional work needed

Grades on course module *Subject learning and teaching*, 4 credits will be set according to a two-point scale:

G = Pass

U = Fail

#### *c) Assessment criteria*

The grading criteria for the course are specified in the course description.

#### *d) Final grade*

In order to pass the course, students must at least receive grade E or G on all examinations, complete all assignments as per the course description and complete all obligatory attendance.

In specific circumstances and after consultation with the directing teacher, examiners can grant students exemption from attending some obligatory tuition. The students can then be required to do make-up assignments.

#### *e) Failing grades*

Students are offered two opportunities per term to submit an examination. In addition, one opportunity to retake an examination is given during the term or year the course is not offered. Further details are provided in the course description.

Students who receive the grade U, Fx or F twice by the same examiner are entitled to have another examiner appointed at the next opportunity for examination, unless specific circumstances speak against it. Such requests should be made to the Head of Department.

Students who receive the grade E or higher on an examination or assignment may not retake the examination to attain a higher grade. A passing grade cannot be changed to a failing grade at the student's request.

#### *f) Make-up assignment*

Students who receive the grade Fx have the opportunity to complement the submitted examination task within one week of being informed of the need for complementation (once per examination opportunity). If this is not done within the specified time limit, the student will have to retake the examination. The grade scale A-E is used for completed assignments that have minor format flaws.

#### **Interim**

If this course is discontinued, or its contents are substantially altered, students have the right to be examined according to this syllabus once per semester for three further semesters.

#### **Limitations**

This course may not be included in the same degree as a course of identical or partially similar content. This includes the following courses:

- UB301Y Early Childhood Education Focusing Science and Technology, 15 credits
- UB306F Early Childhood Education Focusing on Science and Technology, 15 credits
- UB06FS Early Childhood Education Focusing on Science and Technology, 15 credits
- UB304Y Early Childhood Education focusing on Science, Technology and Education for Sustainability
- UB306Y Early Childhood Education focusing on Science and Education for Sustainability
- UB307F Early Childhood Education focusing on Science, Technology and Education for Sustainability

#### **Misc**

The language of instruction is English. The course can be taken as a stand-alone course or as part of the Programme in Early Childhood Education.

#### **Required reading**

Information about required reading will be published on the course website at least two months before the start of the course.