



Faculty of Health, Science and Technology
Public Health Science

Syllabus

Environmental chemicals and health with focus on children

Course Code:

FHGKB2

Course Title:

Environmental chemicals and health with focus on children
Miljökemikalier och hälsa med fokus på barn

Credits:

7.5

Degree Level:

Undergraduate level

Progressive

First cycle, has only upper-secondary level entry
requirements (G1N)

Specialisation:

Major Field of Study:

FHA (Public Health Sciences)

Course Approval

The syllabus was approved by the Faculty of Health, Science and Technology 2020-03-11, and is valid from the Autumn semester 2020 at Karlstad University.

Prerequisites

General admission requirements

Learning Outcomes

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

1. give an account of how environmental chemicals can affect human health, especially children's health, but also impact the ecosystem,
2. give an account of sensitivity to different types of environmental influences in the early stages of life,
3. give an account of definitions and basic toxicological concepts,
4. give an account of the similarities and differences between endocrine disrupting chemicals and traditional environmental pollutants,
5. describe and explain where different chemicals occur and how these are absorbed and metabolised in

humans and ecosystems,

6. give an account of the basic principles of how chemicals are risk assessed on the basis of current legislation,
7. reflect upon potential consequences and effects of chemicals on health,
8. reflect upon current legislation on producer liability and declaration of content in consumer products, and
9. reflect upon access to information for consumers and other target groups.

Content

The course outlines where environmental chemicals occur and how they are absorbed and metabolised in humans and ecosystems, and how we can study and understand the effect of different chemicals on living organisms in relation to health, especially children's health. The environmental legislation in Sweden and the EU and how chemicals can be assessed in terms of risks are included, as are legislation on producer liability, content in consumer products, and access to information for consumers and other target groups.

Reading List

See separate document.

Examination

Assessment is based on group projects, seminars, and an individual written exam.

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 Distinction (VG), Pass (G), or Fail (U) 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.