



Faculty of Health, Science and Technology  
Chemistry

# Syllabus

## Activity-Based Chemistry

<b>Course Code:</b>	KEGCV1
<b>Course Title:</b>	Activity-Based Chemistry <i>Verksamhetsförlagd kemi</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:**  
KEA (Chemistry)

### Course Approval

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

### Prerequisites

Registered on 60 ECTS credits in Chemistry, with at least 30 ECTS credits completed, or equivalent

### Learning Outcomes

The aim of the course is for students to get work experience from a workplace where knowledge of chemistry is useful, and thus gain a better basis for future educational and professional choices. The course offers students the opportunity to apply the knowledge and skills that they have acquired through previous study in practice. In addition, students learn about how chemistry-related work is organised and carried out by for instance a company or an agency.

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

- give an account of the organisation and operations of the host workplace, especially in terms of how

knowledge of chemistry is applied and how chemistry-related work is organised and carried out,  
- reflect upon how analyses and assessments in the field of chemistry are performed in the host workplace, and  
- reflect upon the skills that are in demand for a chemist within the area of work of the host workplace.

### **Content**

Students suggest a host workplace as they apply to the course. The host workplace and placement supervisor must be approved by the course examiner before the course starts. The course begins with a mandatory introduction period of one to two weeks at Karlstad University, including preparation for the practical placement. The practical placement comprises seven or eight weeks in a workplace, where students complete at least one independent task which requires them to apply their knowledge of chemistry. If applicable, a risk analysis is carried out in relation to a work task chosen in consultation with the placement supervisor and the examiner. The course is concluded with a week at Karlstad University, where students are responsible for conducting seminars. Throughout the course, students write a diary in which they describe and reflect upon what they have done and what has happened during the practical placement period.

### **Reading List**

See separate document.

### **Examination**

Assessment is based on a written report of the practical placement period in the form of a diary, and an oral presentation in a seminar at Karlstad University.

For a passing grade, students are also required to participate in the mandatory introduction programme at Karlstad University, and submit a document from the placement supervisor at the host workplace regarding work attendance.

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.

Students are responsible for finding a workplace for the practical placement period, for making practical arrangements, and for covering any extra costs that may be incurred.