



Faculty of Health, Science and Technology  
Nursing Science

# Syllabus

## Prehospital emergency care

<b>Course Code:</b>	KMA402
<b>Course Title:</b>	Prehospital emergency care <i>Akutsjukvård inom ambulanssjukvård</i>
<b>Credits:</b>	7.5
<b>Degree Level:</b>	Master's level
<b>Progressive Specialisation:</b>	Second cycle, has only first-cycle course/s as entry requirements (A1N)

### Major Field of Study:

### Course Approval

The syllabus was approved by the Faculty of Health, Science and Technology 2021-02-17, and is valid from the Autumn semester 2021 at Karlstad University.

### Prerequisites

Nursing licence issued by the National Board of Health and Welfare. Nursing degree of 180 ECTS credits, including a degree project of at least 15 ECTS credits or a Bachelor degree in nursing, or equivalent. Full-time work as a nurse for at least 12 months. Upper secondary level Swedish 3 or Swedish as a second language 3 and English 6, or equivalent.

### Learning Outcomes

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

- explain pathophysiological processes and illnesses leading to prehospital care of patients of all ages,
- give an account of pharmacokinetics, pharmacodynamics and receptor pharmacology on the basis of the pharmaceutical products used in prehospital emergency care,
- describe and analyse quantitative methods used in the field of prehospital care,
- suggest and independently apply nursing and medical treatment based on structured assessment in prehospital emergency care,

- give arguments for the choice of care level based on structured assessment,
- carefully evaluate current examinations and treatments of prehospital emergency care of patients of all ages,
- compare and assess different triage methods,
- give an account of observations and techniques used in prehospital child delivery, and
- describe and analyse qualitative methods and assess validity and credibility in prehospital research.

### **Content**

The course integrates nursing (2 ECTS cr) and medical science (5.5 ECTS cr).

Instruction is in the form of lectures, study assignments, seminars, practical exercises, and patient simulator training. All instruction has an emphasis on evidence-based knowledge. This part-time course is partly offered as distance education, partly on campus and in the training area. Instruction is in some cases concentrated to a number of consecutive days on campus.

Students study pathophysiology with a focus on endocrine diseases, respiratory disorder, circulation disorder, sensory organs, gastro-intestinal system and the urinary system. National and international guidelines for the use and handling of pharmaceuticals in prehospital care and their effects and side-effects are treated. Quantitative research methodology is also studied in relation to different studies in the field in terms of purpose, design, data collection and method of analysis. Students study and apply structured assessment and decision of care level, along with the nursing and medical treatment of patients with endocrine diseases, respiratory disorder, circulation disorder, sensory organs disorder and intestinal disorder and disorder in the urinary system in a prehospital context. Different triage methods are studied by comparing and assessing indicators in the assessment support information. Prehospital child delivery is included with a focus on observations, delivery techniques and complications. Qualitative research methodology is also studied in regard to the purpose, data collection, analysis method and credibility of different studies.

### **Reading List**

See separate document.

### **Examination**

Assessment is based on an individual written exam, seminars, and practical performance. The written exams and seminars cover the theoretical parts of the course. The practical and individual assessment is carried out with patient simulator in a clinical training area.

The examiner may decide that a student who is very close to a passing grade can complete a supplementary assignment to receive a passing grade for a specific take-home exam. Additional examination material must be submitted within six days of notification. The supplementary assignment only is then assessed in accordance with the assessment criteria, and if it is insufficient, a grade of fail (U) will be given.

If students have a decision from Karlstad University entitling them to Targeted Study 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.

Required course for the Specialist Nursing programme: Prehospital emergency care.