



Faculty of Health, Science and Technology
Nursing Science

Syllabus

Course Approval

The syllabus was approved by the Faculty Board of Health, Science and Technology on 6 March 2014, and is valid from the Autumn semester of 2014 at Karlstad University.

Course Code: KMA511

Pathophysiology and pharmacology, 12.0 ECTS Credits
(Patofysiologi och farmakologi, 12.0 Swedish credit points)

Degree Level: Master

Progressive Specialisation: A1N (Second cycle, has only first-cycle course/s as entry requirements)

Language of Instruction

Swedish

Prerequisites

Nursing licence issued by the National Board of Health and Welfare. Nursing degree of at least 180 ECTS cr including a degree project of at least 15 ECTS cr or a Bachelor's degree in nursing, or equivalent. At least one year full-time work experience as a licensed nurse. Upper secondary level Swedish B/ Swedish 2 B and English A.

Major Field of Study

Learning Outcomes

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

- describe the pathophysiological processes and diseases which result in the need of intensive care,
- give an account of and arguments for the examinations and treatments needed to nurse patients with respiratory organ disorders,
- give an account of and arguments for the examinations and treatments needed to nurse patients with circulatory organ disorders,
- give an account of and arguments for the examinations and treatments needed to nurse patients with kidney disorders,
- give an account of pharmacokinetics, pharmacodynamics, and receptor-pharmacology on the basis of the most common pharmacological treatments in intensive care.

Content and Form of Instruction

Instruction is in the form of lectures, field studies, study assignments and seminars. The course is partly net-based and different information and communication techniques are used.

The course includes medical science 12 ECTS cr. Pathophysiology in breathing, circulation, and kidneys are studied along with related diagnosis, examination and treatment connected to disease in these organs. Also studied are the pharmacokinetics, pharmacodynamics and receptorpharmacology related to pharmacological treatment.

Reading List

See separate document.

Examination

Assessment is based on an individual written exam and on seminar performance. Absence from seminars is compensated by a written task.

Supplementary examination is permitted if 1) material for the assessment of a learning outcome is lacking, 2) if the result is close to the requirements for a Pass grade. Additional material must be submitted within six days of notification.

Grades

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

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

Students who enrolled before 1 July 2007 will complete their studies in accordance with the requirements of the earlier admission. Upon completion students may request degree and course certificates to be issued under the current ordinance if they meet its requirements.

The course KMA511 cannot be included in the same degree programme as the courses KMA501 or KMAD63.

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

Required course for the specialist nursing programme in intensive care.

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