



Faculty of Health, Science and Technology
Nursing Science

Syllabus

The nursing profession and responsibilities, fundamentals of nursing and medical science

Course Code:	OMG111
Course Title:	The nursing profession and responsibilities, fundamentals of nursing and medical science <i>Sjuksköterskans profession och ansvar, omvårdnadens grunder och medicinsk vetenskap</i>
Credits:	30
Degree Level:	Undergraduate level
Progressive Specialisation:	First cycle, has only upper-secondary level entry requirements (G1N)
Major Field of Study:	OMA (Nursing Science)

Course Approval

The syllabus was approved by the Faculty of Health, Science and Technology 2024-02-12, and is valid from the Autumn semester 2024 at Karlstad University.

Prerequisites

General admission requirements and upper secondary level Mathematics 2a/2b/2c, Natural Science 2, and Civics 1b/1a1+1a2, or equivalent

Learning Outcomes

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

Knowledge and understanding

1. give an account of the development of the nursing profession and basic concepts and theories of nursing,

2. give an account of different perspectives on and approaches to nursing,
3. give an account of the nurse's area of responsibility and ordinances, laws, and written policies related to healthcare,
4. give an account of scientific concepts, the research process, and research ethical principles,
5. give an account of basic human needs and human psychological development,
6. give an account of health and disease from different perspectives and in relation to the global sustainability goals,
7. explain and reflect upon the significance and consequences of men's violence towards women and domestic violence,
8. explain and reflect upon different perspectives on diversity and equality in healthcare,
9. give a basic account of the anatomical structure of the human body using the appropriate medical terms,
10. give an account of the basic physiology of the human body from the individual cell to the organ systems,
11. give an account of microorganisms, pathogenic mechanisms, and spread of infection, and
12. give an account of basic pathophysiological changes and the function of the immune system, as well as the basics of clinical chemistry.

Competence and skills

13. give an account of and apply principles of hygiene and ergonomics,
14. explain and carry out clinical skills treated in the course,
15. perform cardiopulmonary resuscitation (CPR) and handle airway blockage in adults, and
16. write an academic text with correct source use and referencing, using a source-critical approach.

Judgement and approach

17. reflect upon what it means to adopt an empathetic approach, attitude towards others, and communication in nursing.

Content

Instruction is in the form of independent study, lectures, seminars, clinical training, group work, workshop, simulations, and peer review.

The course integrates Nursing (12 ECTS cr, of which 3 ECTS cr is clinical placement (VFU)), Medical Science (15 ECTS cr), and Social and Behavioural Science (3 ECTS cr).

The nursing profession and the basics of nursing

- Historical perspectives on the nursing profession
- Ethical theories and principles
- The ICN code of ethics for nurses
- The concepts of consensus human, health, environment, and nursing based on nursing theory perspectives
- Nursing theories
- Different views on humans
- Communication in nursing
- Person-centred nursing
- The steps of the nursing process
- The theoretical framework Fundamentals of Care
- The competence description of nurses
- Confidentiality in healthcare
- Patient safety and prevention of iatrogenic harm
- Introduction to drug management and calculation

- Common examinations in clinical physiology

Science and the research process

- Theory of science and scientific concepts such as ontology, epistemology, paradigm, evidence, and evidence-based care
- The steps of the research process
- Research ethical principles and guidelines in nursing research
- Introduction to database searches
- AI as a tool used to assess the reliability of sources

Different perspectives on health, human needs, and human psychological development

- Global health and public health from the perspectives of individuals, society, and cultural diversity
- The influence of climate on health
- Health determinants
- Salutogenesis
- Health literacy
- Oral health
- Mental health problems
- Theories of developmental psychology
- Biological sex and social gender, gender perspectives
- Sexuality and sexual health
- The life conditions of HBTQI+ persons

Domestic violence and men's violence against women

- Expressions and forms of violence, the process of normalisation, the process of breaking up, and consequences
- Factors of risk and protection in relation to violence

Medical science

- Concepts related to anatomy and basic chemical processes
- The structure and function of the cell
- Normal microbiome, infectious disease, bacteria, virus, fungi, parasites, and basic hygienic principles

- Gastrointestinal system and metabolic processes
- Endocrine system
- Reproduction system
- Nervous system, senses
- Musculoskeletal system

- Pathophysiology: cell stress, cell injury, cell death, and healing process
- The immune system, the structure and function of vaccines
- Hypersensitivity, allergies, and asthma
- Common analyses and examinations in clinical chemistry to identify disease

- Circulatory system
- Respiratory system
- Kidneys and urinary tracts
- Electrolyte, fluid, and acid-base balance

Clinical skills

- Basic hygiene routines, the nursing bed, the personal hygiene and oral hygiene of the patient
- Ergonomics and work techniques, including transfer knowledge

- Structured assessment of vital signs in accordance with ABCDE

Reading List

See separate document.

Examination

Assessment is based on written exams (on campus), digital individual exams, individual and group take-home exams, individual and group oral presentations, seminars, peer review, performance, and practical demonstration of clinical skills. Attendance is mandatory for the clinical practice (VFU), at least 32 hours per week, and for clinical skills training.

A student who has failed to obtain a pass grade at a regular exam date is offered at least two more re-examinations within a year. A student who has failed to obtain a pass grade for the clinical placement component will be offered one new examination opportunity, if possible the next time the course is offered, and no later than within one year.

Supplementary revisions of individual take-home exams and written group assignments can be permitted if the result is close to the requirements for a pass grade (only small revisions required). Additional material must be submitted within six days of notification. Only the additional material asked for by the teacher will be assessed in accordance with the assessment criteria, and if it does not reach the minimum level for a pass, a grade of Fail will be reported.

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 Nursing Programme.

The course OMG111 cannot be included in the same degree programme as courses with overlapping content.

A student who, in the examiner's judgement, will fail to obtain a Pass grade for the practical placement component on the grounds of grave and unprofessional conduct may be required to immediately discontinue the placement.

As stipulated in the Higher Education Act Chapter 4, sect. 6, SFS 1992: 1434, and Regulations of Student Expulsion from Higher Education SFS 2007: 989, a student who suffers from mental disorder, abuses alcohol or drugs, or has been guilty of a serious offence endangering others or valuable property can be expelled until further notice. In such a case, the Vice-Chancellor files a complaint to the Expulsion Board of Higher Education, which investigates the matter and makes a decision. A decision of expulsion shall always entail that the student must discontinue the education until further notice. The Expulsion Board of Higher Education is responsible for all Swedish higher education institutions.