

**Curriculum at LAB University of Applied Sciences
2021-2022**

**Bachelor of Health Care, Paramedic 21S, part-time studies,
Lahti**

Code	Name	1 y	2 y	3 y	4 y	ECTS total
EH21SMLTI-1001 Common Studies						15
AY00BT88	Developing Professional Competence 1	1				1
AY00BT89	Developing professional competence 2	0,5	0,5			1
AY00BT90	Developing Professional Competence 3			1		1
A300CE13	Orientation to Sustainability Thinking		2			2
KE00BT61	English for Work		4			4
KR00BU42	Swedish for Work, Spoken		1			1
KR00BU43	Swedish for Work, Written		1			1
KS00BT59	Expert Communication Skills	4				4
EH21SMLTI-1002 Professional Core Competence						150
EH21SMLTI-1003 Common Social and Health Care Studies						15
AH00BU26	Professional Base in Social and Health Care	5				5
AH00BU27	Research, Development and Innovation Competence in the Social and Health Care			5		5
AH00BU28	Leadership and Entrepreneurship Competence in Social and Health Care		5			5
EH21SMLTI-1004 Basics of Professional Nursing						20
AH00BZ45	Principles of Nursing	5				5
AH00BZ46	Clinical Nursing Interventions	5				5
AH00BZ47	Basics of Anatomy and Physiology	5				5
AH00BZ48	Clinical Training in Basics of Nursing	5				5
EH21SMLTI-1005 Safe Medical-Surgical Nursing						15
AH00BZ50	Pharmacotherapy	5				5
AH00BZ49	Medical-Surgical Nursing	10				10
EH21SMLTI-1006 Self-Care Supporting Medical-Surgical Nursing						15
AH00BZ56	Medical-Surgical Nursing Interventions	5				5
AH00BZ57	Clinical Training in Medical-Surgical Nursing 1	10				10
EH21SMLTI-1007 Client-Centered Safe Acute Care						10
AH00BZ58	Competence in Acute Care Nursing and Emergency Health Care		5			5
AH00CA76	Clinical Training in Self-Care Supporting Nursing		5			5
EH21SMLTI-1008 Basics of Paramedic Nursing						30

AH00CA70	Emergency Care Services		5		5
AH00CA71	Examination of a Patient		5		5
AH00CA72	Basic Level Paramedic Nursing I		5		5
AH00CA73	Basic Level Paramedic II and Evaluation of Professional Paramedic Skills 1		5		5
AH00CA74	Clinical Training in Basic Level Paramedic		10		10
EH21SMLTI-1009	Customer-Oriented Mental Health and Substance Abuse Nursing				10
AH00BZ60	Mental Health and Substance Abuse Nursing		5		5
AH00CA75	Clinical Training in Mental Health and Substance Abuse Nursing		5		5
EH21SMLTI-1010	Health Promotion in Nursing				5
AH00BZ62	Promote Wellbeing and Health of Community			5	5
EH21SMLTI-1011	Multidisciplinary Care for Children, Young People and Families				10
AH00BZ64	Child, Adolescent and Family Nursing			5	5
AH00BZ65	Clinical Training in Child, Adolescent and Family Nursing			5	5
EH21SMLTI-1012	Ethical Gerontological Nursing				5
AH00BZ66	Gerontological Nursing			5	5
EH21SMLTI-1013	Nursing in Emergency Room				15
AH00CA77	Nursing in Emergency Room			5	5
AH00CA78	Clinical Training in Emergency Care			10	10
EH21SMLTI-1014	Complementary Competence				60
EH21SMLTI-1015	Advanced Special Studies in Paramedic				30
AH00CA83	Medical and Pharmacology in Emergency			5	5
AH00CA84	Anaesthesia and Intensive Care Nursing			5	5
AH00CA85	Clinical Training in Anaesthesia and Intensive Care Nursing			10	10
AH00CA86	Advance Level Paramedic Nursing III			5	5
AH00CA87	Evaluation of Professional Paramedic Skills II and Projects			5	5
EH21SMLTI-1016	Advance Paramedic Nursing				30
AH00CA79	Measures and Guidance in Paramedic			5	5
AH00CA80	Advance Paramedic Nursing I			5	5
AH00CA81	Advance Paramedic Nursing II			5	5
AH00CA82	Clinical Training in Advance Level Paramedic			15	15
EH21SMLTI-1017	Thesis				15
AO00BU44	Thesis Planning			5	5
AO00BU45	Thesis Project			5	5
AO00BU46	Thesis Report			5	5
EH21SMLTI-1018	Drug Calculations				0

AH00CP58	Academic year medication calculations 2					0
AH00CP59	Academic year medication calculations 3					0
EH21SMLTI-1019	Assessment of Nurse's Core Competences (180 ECTS)					0
AH00CQ76	Assessment of Nurse's Core Competences (180 ECTS)					0

EH21SMLTI-1001 Common Studies: 15 ECTS

AY00BT88 Developing Professional Competence 1: 1 ECTS

Learning outcomes

The student is able to

- plan their own learning and cooperate in situations related to their own field of studies
- recognize their own competence and the needs to develop them further and to plan their career path observing them
- act as a group member
- operate in the learning environments of LAB University of Applied Sciences
- picture their own field of studies and its future skills
- give feedback on tuition and services and thus participate in the development of education

AY00BT89 Developing professional competence 2: 1 ECTS

Learning outcomes

The student is able to

- utilize various learning opportunities in curriculum
- recognize and aim their own competences to be in level with the future career requirements
- create a study plan that supports the future career goal
- give feedback on tuition and services and thus participate in the development of education

AY00BT90 Developing Professional Competence 3: 1 ECTS

Learning outcomes

The student is able to

- identify themselves as a learner and develop their own learning skills
- evaluate innovative or alternative future competences required in their own field
- recognize and aim their own competences to be in level with the future career requirements
- masters the professional concepts of their own field and is able to point out their competencies during job recruitment processes
- give feedback on tuition and services and thus participate in the development of education

A300CE13 Orientation to Sustainability Thinking: 2 ECTS

Learning outcomes

Identify and define central concepts and frameworks related to sustainability. Recognize the interconnectedness of economic, social and environmental sustainability issues. Understand and develop own individual role in driving sustainability.

Evaluation criterias**Level 1**

Pass-Fail

KE00BT61 English for Work: 4 ECTS**Learning outcomes**

Proficiency level: B2

The student is able to

- communicate clearly and effectively in different generic and field-specific workplace situations both orally and in writing
- find, evaluate and use information effectively
- function collaboratively in international working environments.

KR00BU42 Swedish for Work, Spoken: 1 ECTS**Learning outcomes**

The student is able to

- convey and validate arguments
- use vital field-specific vocabulary
- communicate essential matters about their education, work experience and tasks
- present their field-specific operational environment
- communicate in various working life situations in Swedish.

The student completes the Public Administration Language Test in Swedish.

KR00BU43 Swedish for Work, Written: 1 ECTS**Learning outcomes**

The student is able to

- use vital field-specific vocabulary
- communicate essential matters about their education, work experience and tasks
- understand and produce various short texts related to studies and working life
- acquire information on their field in Swedish
- use online dictionaries.

The student completes the Public Administration Language Test in Swedish.

KS00BT59 Expert Communication Skills: 4 ECTS**Learning outcomes**

Proficiency level: C2

The student masters Finnish language as a mother tongue in all professional spoken and written communication situations.

EH21SMLTI-1002 Professional Core Competence: 150 ECTS**EH21SMLTI-1003 Common Social and Health Care Studies: 15 ECTS****AH00BU26 Professional Base in Social and Health Care: 5 ECTS****Learning outcomes**

The student is able to

- explain the organization of the social and health service system and describe the client's position in the social and health service system
- describe the values and ethical principles in their field as well as the key regulations governing operations
- describe the principles of evidence-based information and action
- identify factors of well-being and functioning at an individual and community level

AH00BU27 Research, Development and Innovation Competence in the Social and Health Care: 5 ECTS**Learning outcomes**

The student is able to

- describe the most common research methods in the social and health field
- evaluate and analyze the ethical principles and reliability of research and development
- describe the stages of a research process
- explain the concept of innovation and utilize innovation in the development of one's own field
- use the most important research, development and innovation methods in their field in the implementation of the thesis

AH00BU28 Leadership and Entrepreneurship Competence in Social and Health Care: 5 ECTS**Learning outcomes**

The student is able to

- compare different management approaches and their role in the management and development of a work community
- identify the characteristics and legislation of social and health management and personnel management
- describe economic monitoring indicators from the perspectives of cost-effectiveness, sustainable development and entrepreneurship
- describe the principles of quality work and apply the means of developing customer-centric services
- develop the well-being at work and the occupational safety of the work community

EH21SMLTI-1004 Basics of Professional Nursing: 20 ECTS**AH00BZ45 Principles of Nursing: 5 ECTS**

Learning outcomes

The student is able to

- describe the scientific basis, values, ethical principles and guidelines of nursing
- identify different client groups in nursing
- describe the starting points and principles of customer guidance
- list data protection and security requirements and social legislation for social and health care
- explain the main principles of social and health documentation and plan the nursing process

AH00BZ46 Clinical Nursing Interventions: 5 ECTS**Learning outcomes**

The student is able to

- implement basic clinical nursing skills and interpret basic organ functions in a customer-oriented manner
- work ergonomically and follow occupational safety instructions in nursing
- describe the basics of microbiology and the principles of infection control
- explain the principles of patient safety
- calculate the dosages of drugs used in pharmacotherapy and understand their responsibility for the correctness of the calculations

AH00BZ47 Basics of Anatomy and Physiology: 5 ECTS**Learning outcomes**

The student is able to

- identify and explain the structure, function and regulation of the organ systems of the human body
- examine a patient using basic nursing skills
- give first aid

AH00BZ48 Clinical Training in Basics of Nursing: 5 ECTS**Learning outcomes**

The student is able to

- act in accordance with the ethical and sustainable principles of nursing
- implement professional interaction in customer-oriented nursing
- implement basic nursing skills in promoting the client's health
- assess the client's state of health and plan client-oriented nursing work

EH21SMLTI-1005 Safe Medical-Surgical Nursing: 15 ECTS**AH00BZ50 Pharmacotherapy: 5 ECTS****Learning outcomes**

The student is able to

- identify the legal and ethical responsibilities of the nurse in pharmacotherapy
- carry out pharmacological treatment safely and evaluate the effect of pharmacological treatment
- list the pharmacological mechanisms of action, disadvantages and contraindications of medicines used to treat the most common diseases

- justify the choice of the medicinal product in terms of drug properties, drug interactions and compliance
- guide the client in the implementation of medication

AH00BZ49 Medical-Surgical Nursing: 10 ECTS

Learning outcomes

The student is able to

- define primary treatment paths and processes of a medical-surgical and perioperative client
- assess the treatment needs of a medical-surgical client and implement key nursing measures
- apply knowledge of the primary medical-surgical diseases in nursing care
- apply knowledge of pathophysiology and pharmacology in medical-surgical nursing care and safe pharmacology

EH21SMLTI-1006 Self-Care Supporting Medical-Surgical Nursing: 15 ECTS

AH00BZ56 Medical-Surgical Nursing Interventions: 5 ECTS

Learning outcomes

The student is able to

- guide the internal medicine-surgical client at different stages of the treatment path
- implement nutrition treatment and guidance in a multi-professional manner
- support self-care of the internal medicine-surgical client in the nurse's reception, home care and electronic services
- implement and justify key nursing measures
- carry out palliative nursing work

AH00BZ57 Clinical Training in Medical-Surgical Nursing 1: 10 ECTS

Learning outcomes

The student is able to

- plan, implement and evaluate the nursing care of an internal medicine-surgical client
- carry out the client's medication and fluid treatment safely
- implement nutritional treatment and guidance
- apply nursing methods and a rehabilitative approach safely at all stages of the nursing process
- promote a positive customer experience
- record the client's nursing process

EH21SMLTI-1007 Client-Centered Safe Acute Care: 10 ECTS

AH00BZ58 Competence in Acute Care Nursing and Emergency Health Care: 5 ECTS

Learning outcomes

The student is able to

- evaluate the need of acute care and carry out treatment in different working environments

- evaluate the reasons, symptoms and treatment procedures that lead to changes in the state of a client in need of acute care
- encounter, support and guide a client in an acute crisis, and their loved ones
- describe the operating models of the authority cooperation and communication in exceptional and dangerous situations
- begin immediate emergency care
- describe the pathophysiology and pharmacotherapy of an acutely ill client

AH00CA76 Clinical Training in Self-Care Supporting Nursing: 5 ECTS

Learning outcomes

The student is able to

- carry out nursing that supports the client's self-care in ambulatory and home care environments
- make independent decisions and justify them in a customer-oriented and evidence-based manner
- carry out multi-professional team work in a multicultural customer work
- recognize and evaluate risk factors that negatively affect health, functioning and work capacity as well as coping at work
- evaluate customer-oriented nursing care in reception work, electronic services and home care

EH21SMLTI-1008 Basics of Paramedic Nursing: 30 ECTS

AH00CA70 Emergency Care Services: 5 ECTS

Learning outcomes

The student is able to

- identify the legislation governing emergency care and describe the operation of the emergency care system
- designate and cooperate with liaison bodies
- act safely as a member of the emergency department
- operate in a patient-safe and customer-oriented manner
- use first aid equipment and technology

AH00CA71 Examination of a Patient: 5 ECTS

Learning outcomes

The student is able to

- perform targeted examinations according to the patient's various symptoms
- interpret the findings made and the measurement results obtained from the patient
- understand the basics of patient interviewing
- understand the basics of reporting / documentation
- combine theoretical knowledge (anatomy, physiology, pathophysiology) with the patient's symptoms and findings and deduce the occupational diagnosis

AH00CA72 Basic Level Paramedic Nursing I: 5 ECTS

Learning outcomes

The student is able to

- apply test methods according to different symptom profiles
- identify the emergency patient and start immediate first aid
- carry out basic emergency care based on different occupational diagnoses
- understand the roles of co-operation authorities and the basics of radio traffic in the most common first aid situations
- adhere to occupational safety and patient safety principles in their operations

AH00CA73 Basic Level Paramedic II and Evaluation of Professional Paramedic Skills 1: 5 ECTS

Learning outcomes

The student is able to

- make a systematic assessment of the condition of a disabled patient
- distinguish between high- and low-risk injury mechanisms and understand their effects on the patient's condition and treatment planning
- select appropriate support, transfer and care equipment and methods and use them safely
- understand the roles of co-operation authorities and the basics of radio traffic in the most common first aid situations
- demonstrate mastery of the basic knowledge and skills required for basic care in emergency care and the ability to work safely outside the hospital

AH00CA74 Clinical Training in Basic Level Paramedic: 10 ECTS

Learning outcomes

The student is able to

- apply the acquired knowledge and skills in basic level emergency care when examining a patient, evaluating their state and making an occupational diagnosis in an emergency care outside the hospital
- use the examination, care and patient's transfer equipment safely in emergency care
- function as a member of the care group in acute situations, familiarize themselves with the cooperation with the authorities in emergency care, and learn how to communicate with the VIRVE data terminal
- understand the whole system of the emergency care service in their training municipality and the meaning of the care provided by different units in the treatment of the patient
- work according to the main principles of emergency care in a patient-safe manner
- handle the first aid unit in a practice area or in traffic without a patient (if this is allowed in the placement organization)
- work independently in basic level emergency care in their own role and show initiative in daily station work, as well as adapt to the work community as a student member

EH21SMLTI-1009 Customer-Oriented Mental Health and Substance Abuse Nursing: 10 ECTS

AH00BZ60 Mental Health and Substance Abuse Nursing: 5 ECTS

Learning outcomes

The student is able to

- create a therapeutic interaction in mental health and substance abuse treatment

- reflect one's own values and attitudes to the ethical principles of mental health and substance abuse treatment
- apply non-pharmacological and pharmacological methods of nursing
- identify mental health and substance abuse problems and understand the need for and stages of physical, mental and social care in different nursing settings
- describe the symptoms of the most common psychiatric illnesses and disorders, the main features of the treatment, the methods of treatment and the significance for the client and society

AH00CA75 Clinical Training in Mental Health and Substance Abuse Nursing: 5 ECTS

Learning outcomes

The student is able to

- meet mental health and substance abuse clients and their loved ones and look at interaction situations with theoretical and experiential knowledge
- assess the client's mental well-being and the need for rehabilitation
- implement pharmacological and non-pharmacological methods of nursing
- plan, implement and evaluate the care process of one's own care client
- implement mentoring and service counseling for mental health and substance abuse clients
- analyze the activities of the multidisciplinary working group and his/her own contribution to the working group
- evaluate one's own thinking, multidisciplinary decision-making criteria and work ethic

EH21SMLTI-1010 Health Promotion in Nursing: 5 ECTS

AH00BZ62 Promote Wellbeing and Health of Community: 5 ECTS

Learning outcomes

The student is able to

- identify and assess the determinants of community health and well-being at an individual and community level
- assess the determinants of health inequalities from a sustainable development perspective
- evaluate and develop interventions to strengthen the client's resources in a multi-professional manner
- guide and support the client in vaccination decisions and in the prevention of infectious diseases in the tourist
- explain the diversity and importance of sexual health for well-being, identify risk factors and promote sexual health at different stages of life

EH21SMLTI-1011 Multidisciplinary Care for Children, Young People and Families: 10 ECTS

AH00BZ64 Child, Adolescent and Family Nursing: 5 ECTS

Learning outcomes

The student is able to

- apply nursing methods in the planning, implementation and evaluation of care for children of

different ages

- carry out safe treatment of children and adolescents with medicines, fluids and pain
- describe the most common pediatric diseases and their medical treatment
- identify key care pathways for children, young people and families
- identify service needs and refer customers to services
- identify the challenges of the well-being of diverse families and promote the well-being of families
- explain the progression and monitoring of pregnancy and childbirth

AH00BZ65 Clinical Training in Child, Adolescent and Family Nursing: 5 ECTS

Learning outcomes

The student is able to

- plan, implement and evaluate the comprehensive nursing work of the child and the young person and his / her family in a multi-professional team
- professionally meet different families and children of different ages
- assess the resources of the child, the young person and his or her parents
- evaluate and develop working and working methods that promote the well-being of families
- assist in normal childbirth

EH21SMLTI-1012 Ethical Gerontological Nursing: 5 ECTS

AH00BZ66 Gerontological Nursing: 5 ECTS

Learning outcomes

The student is able to

- assess the factors impairing the elderly's ability to function and prevent their impact on the client's well-being
- apply comprehensive geriatric assessment (CGA) in assessing the client's need for care and in the implementation of care
- describe the specific features of memory disorders in the planning, implementation and evaluation of treatment
- use technology to support a good quality of life and care for the elderly
- apply their knowledge of geriatric diseases in the planning, implementation and evaluation of nursing work

EH21SMLTI-1013 Nursing in Emergency Room: 15 ECTS

AH00CA77 Emergency Nursing Care: 5 ECTS

Learning outcomes

Students

- deepen their theoretical knowledge of anatomy, physiology, pathophysiology, cardiology, neurology, traumatology, anaesthesiology, pediatrics and pharmacology
- explain / justify the decisions made in the care of an emergency patient based on the theoretical knowledge of the main medical specialties
- is familiar with the mechanisms of action and side effects of key medicines used in emergency care and hospital acute care.

- to safely administer medication in emergency situations and patient guidance, and to understand the mechanisms of occurrence of the most common intoxications and pharmacological treatment.

AH00CA78 Clinical Training in Emergency Care: 10 ECTS

EH21SMLTI-1014 Complementary Competence: 60 ECTS

EH21SMLTI-1015 Advanced Special Studies in Paramedic: 30 ECTS

AH00CA83 Medical and Pharmacology in Emergency: 5 ECTS

Learning outcomes

The student is able to

- deepen their theoretical knowledge of anatomy, physiology, pathophysiology, cardiology, neurology, traumatology, anesthesiology, pediatrics, and pharmacology
- explain / justify the decisions made in the care of an emergency patient based on the theoretical knowledge of the most important medical specialties
- is familiar with the mechanisms of action and side effects of key drugs used at the primary care level and in hospital acute care.
- to safely administer medication in emergency situations and in patient guidance, and to understand the mechanisms of the occurrence of the most common intoxications and pharmacological treatment.

AH00CA84 Anaesthesia and Intensive Care Nursing: 5 ECTS

Learning outcomes

Student is able to:

- justify the care environment of the patient in the intensive care unit and understand the unit as part of the health care system
- analyze the importance of patient and occupational safety and their risks in intensive care work
- deepen previously learned knowledge and skills in the observation and care of a critically ill patient
- understand the special features of anesthesiology as part of intensive care work

AH00CA85 Clinical Training in Anaesthesia and Intensive Care Nursing: 10 ECTS

Learning outcomes

The student is able to

- work as part of a multi-professional team, identify a sudden deterioration in the patient's condition and carry out intensive care patient monitoring and treatment.

AH00CA86 Advance Level Paramedic Nursing III: 5 ECTS

Learning outcomes

Student is able to:

- evaluate and justify their own actions in paramedic situations
- make decisions in demanding paramedic situations

- manage the operations of the emergency department and be able to act as a situation manager in the tasks of several emergency departments.
- evaluate one's own actions in ethically challenging situations
- draw conclusions about family and family crises and refer them to various support services.

AH00CA87 Evaluation of Professional Paramedic Skills II and Projects: 5 ECTS

Learning outcomes

Student is able to:

- justify the essential knowledge and skills for the level of professional competence related to advance paramedic skills and work safely outside the hospital
- understand the advance paramedic management system in exceptional circumstances

EH21SMLTI-1016 Advance Paramedic Nursing: 30 ECTS

AH00CA79 Measures and Guidance in Paramedic: 5 ECTS

Learning outcomes

- perform and justify the most important measures at advance paramedic level
- draw up a training plan and prepare teaching material on one of the topics to be covered
- implement the guidance / teaching situation for his / her target group in accordance with the training plan he / she has prepared

AH00CA80 Advance Paramedic Nursing I: 5 ECTS

Learning outcomes

- assess the patient's condition and need for care and treat him or her with the methods of advance paramedic level, based on the care instructions
- to examine and support patients basic organ functions with medication and intensive care measures and aids.
- analyze factors threatening occupational safety
- Apply non-technical teamwork skills.

AH00CA81 Advance Paramedic Nursing II: 5 ECTS

AH00CA82 Clinical Training in Advance Level Paramedic: 15 ECTS

Learning outcomes

Student is able to:

- independently treat a patients needs of emergency care, making an initial assessment, a detailed assessment of the condition by examine and interviewing, and carry out an assessment of the effects of the necessary first aid and assessment the effects of treatment
- use emergency care research and treatment equipment safely and reliably interpret the information produced by them in order to access a work diagnosis
- use the essential medicines at advance care paramedic and to carry out independently the safe medication and fluid management required by the patient's condition
- familiar with the structure and operation of the emergency care service of his / her training unit and

is familiar with the operating methods of key authorities, the obligations related to his / her position in relation to other authorities and is able to communicate with them in everyday situations

- act as a member of a multidisciplinary working group and become acquainted with the management of emergency care and know how to manage primary and / or basic level units on a task-by-task basis
- drive ambulance safely in the training area and in traffic. May act as a driver of the emergency unit when the situation allows

Delivery room:

- identify the stages of childbirth; opening phase, effort phase, post-monitoring phase and monitoring phase
- to act in the effort phase, assisting in childbirth
- act in the post-operative phase, taking into account the condition and leakage of the mother and the monitoring of the newborn

EH21SMLTI-1017 Thesis: 15 ECTS

AO00BU44 Thesis Planning: 5 ECTS

Learning outcomes

Student is able to

- describe the objectives and core contents of their thesis
- plan and describe the stages of the thesis process
- take into account the possible research permit and copyright issues.

AO00BU45 Thesis Project: 5 ECTS

Learning outcomes

Student is able to

- implement the thesis on the basis of an approved thesis plan

AO00BU46 Thesis Report: 5 ECTS

Learning outcomes

Student is able to

- present the results or output of their thesis
- report on their thesis in writing in accordance with the thesis guidelines of LAB University of Applied Sciences
- write a maturity test.

EH21SMLTI-1018 Drug Calculations: 0 ECTS

AH00CP58 Academic year medication calculations 2: 0 ECTS

AH00CP59 Academic year medication calculations 3: 0 ECTS

EH21SMLTI-1019 Assessment of Nurse's Core Competences (180 ECTS): 0 ECTS

AH00CQ76 Assessment of Nurse's Core Competences (180 ECTS): 0 ECTS