

# Opasraportti

## FMed - Nursing Science (2017 - 2018)

### DEGREE PROGRAMME IN HEALTH SCIENCES (BHSc) and

### MASTER'S PROGRAMME IN NURSING SCIENCE (MHSc)

#### 2017-2018

The Bachelor's degree (BHSc) and Master's degree (MHSc) in Health Sciences at the University of Oulu are based on the Government Decree on University Degrees [794/2004](#). The degree programme leads first to the degree of Bachelor of Health Sciences (180 ECTS) and further to the degree of Master of Health Sciences (120 ECTS). The studies are multidisciplinary in the degree programme of Bachelor of Health Sciences (first-cycle university degree), so that the curriculum of the three different degree programs (Nursing Sciences, Health Management Sciences, Health Sciences Teacher Education) is identical to all undergraduate health science students irrespective of chosen specialization.

When students have received study rights for nursing science during the admission process, students are guaranteed to continue their studies either in the Master's Programme in Nursing Science or in the Master's Programme in Health Sciences Teacher Education. When students have received study rights for health management sciences during the admission process, students are guaranteed to continue their studies in the Master's Programme in Health Management Science. The studies for Master's degree in Health Sciences (second-cycle university degree) are different in each Master's programme according to the chosen specialization. Upon completion of the Master's degree, the student is eligible for applying for further academic education (doctoral degree).

The study rights of students progressing into the Master's Programmes in Nursing Science and Health Sciences Teacher Education are confirmed based on an application that the students have to submit during the first Bachelor year by deadline given separately. In the application, the students set nursing science and health sciences teacher education in an order of preference. In case there are more applicants than open places, the decision on admission will be made based on success in studies and/or in admission examination. After the admission process student is given study rights either for Master's Programme in Nursing Science or Master's Programme in Health Sciences Teacher Education. The students must take into account the required studies for entering the master's programmes already when they choose their minor subject in Bachelor degree programme. Those who transfer into the Master's Programme in Health Sciences Teacher Education must have completed basic studies in education or in adult education.

Students who have obtained Bachelor's and Master's Degrees in Health Sciences, qualify for various demanding positions in social welfare and public health care including positions in planning, development, research, teaching and management on both national and international level.

In the beginning of the studies, for all students will be named a small group tutor and a personal teacher, who are responsible for student guidance and supervision. All students draft personal study plan (e-PSP). The implementation of teaching is in accordance with the decision by University of Oulu (KN 17.9.2014) regarding four teaching periods during the period from 10.8.2017 to 31.5.2018. Additionally, it is possible to complete a part of the courses during the summer term. A separate announcement of the courses offered during the summer term will be given by the end of February.

All students of the University of Oulu may become exchange students if they wish and complete a part of the studies (e.g. optional studies, practical training) in an institution of higher education abroad. Duration of the exchange is 3-12 months and the student may participate in exchange as soon as she/he has finished one year of studies at the University of Oulu. The student and the coordinator for [international affairs](#) will agree together on the period of exchange and on an individual study plan for the exchange. In case the student is planning to complete practical

training included in her/his curriculum in exchange, she/he first agrees on this with the teacher responsible for the study unit of practical training and then with the coordinator of international affairs. After this the student will contact the student centre in order to apply for the place for practical training in exchange and for possible funding.

## **MULTIDISCIPLINARY BACHELOR'S DEGREE PROGRAMME IN HEALTH SCIENCES (BHSc) 180 ECTS cr**

### **Learning Objectives for the Bachelor Degree in Health Sciences**

The learning objectives of the Degree Programme correspond to the aims of the Finnish [National Framework for Qualifications and Other Learning](#).

Having obtained the Bachelor degree in Health Sciences the students has reached the following learning objectives:

#### **Multi-disciplinary and advanced knowledge in health sciences:**

- Student is able to explain the primary areas of research in nursing science and health management science in evidence-based practice of healthcare
- Student is able to explain the fundamentals of theory development in health sciences
- ——— Student is able to observe and interpret national and international development of healthcare and health sciences
- ——— Student is able to choose and use creatively scientific methods and approaches using critical thinking

#### **Skills in collaboration, communication and technology:**

- The student is able to use creatively technology for retrieval, production and evaluation of relevant research data
- The student is able to communicate independently in one's mother tongue, in one additional official language, and in at least one foreign language

#### **Analytical thinking and problem solving skills:**

- The student is able to apply gained knowledge critically and creatively in professional situations and problem solving
- The student is able to work in a cooperative manner as an expert of her/his field in multidisciplinary settings of healthcare services

#### **Leadership and entrepreneurship:**

- The student is able to take responsibility for the development and evaluation of one's own competence as well as that of other individuals' and groups
- The student is able to apply her/his competence to demands and challenges of working life
- The student is able to use her/his expertise in professional (working life) collaboration in the field of healthcare, education and management

#### **Flexibility and ethics:**

- The student is able to make decisions and act independently according to the ethical principles of health sciences

#### **Continued learning:**

- The student is able to further qualify for a postgraduate degree and continued learning

## **STRUCTURE OF THE MULTIDISCIPLINARY BACHELOR'S DEGREE PROGRAMME IN HEALTH SCIENCES**

Course Structure Diagram 2017-2018: <http://webcgi.oulu.fi/studiag/index.php?kieli=6&kaavio=493>

At the University of Oulu the Bachelor's Degree consists of following areas of competence: Language and Communication Skills, Health Sciences, Scientific Practice and Research Skills, Minor Subject and Optional Studies. The students prepare their Bachelor thesis in their field of specialization so that they can apply their expertise in the field.

### **GENERAL STUDIES 17 ECTS cr**

352001Y Guidance for Study and Working Experience, Study Tutorials 2 ECTS cr

### ***Language and Communication Skills 15 ECTS cr***

Upon completion of this area of competence, the student has the needed skills in writing and presenting according to the principles of scientific communication. The student recognizes the properties of scientific information, understands the research process, and is able to obtain, apply, report and evaluate scientific information. Additionally, the student will have the ability to communicate at a satisfactory level in the second national language and one foreign language.

#### **Studies included in the area of competence:**

901040Y Second Official Language (Swedish), Written Skills 1 ECTS cr

901041Y Second Official Language (Swedish), Oral Skills 2 ECTS cr

902008Y Academic English 3 ECTS cr

900008Y Basics of Oral Communication 3 ECTS cr

A500105 Knowledge and Research I-III 10 ECTS cr including:

040021Y Knowledge and Research I, Tools 1 ECTS cr

040022Y Knowledge and Research I, Written assignment 1,5 ECTS cr

040024Y Knowledge and Research II, Literature retrieval 4 ECTS cr

Additional information: Knowledge and research II 4 ECTS cr is included in the Bachelor's Thesis 10 ECTS cr

040025Y Knowledge and Research III, Lessons and written examination 1,5 ECTS cr

040026Y Knowledge and Research III, Small group exercises 1 ECTS cr

040027Y Knowledge and Research III, Practical project 1 ECTS cr

### **BASIC STUDIES 25 ECTS cr and SUBJECT STUDIES 35 ECST cr**

### ***Health Sciences 55 ECTS***

The Research Unit of Nursing Sciences and Health Management in the University of Oulu deals with areas of individual and communal interest in health from the perspectives of nursing, education and management. Upon completion of this area of competence the student knows the foundations and foundational operational principles of Finnish health care and Finnish health care education. The student is able to define objects of research in nursing science and health management science in evidence-based operation of health care and has learned bases of theory development in health sciences. Furthermore, the student will be able to operate in the university community and in professional networks. The student will be able to explain the relation between education and professional life in the development of expertise.

#### **Basic studies included in the area of competence**

351203P Introduction to Health Sciences 5 ECTS cr

351204P Foundations of Philosophy and Research Methods in Health Sciences 5 ECTS cr

351205P Foundations of Health Care Education 5 ECTS cr

351206P Health Care Systems in Finland and Inter-professional Networking 5 ECTS cr

351207P Foundations of Health Care Legislation 5 ECTS cr

#### **Subject studies included in the area of competence:**

353234A Health Management Science and Training in Expertise Development 10 ECTS cr

353235A Nursing Science and Training in Expertise Development 10 ECTS cr

352114A Bachelor Thesis 10 ECTS cr

352514A Maturity Test 0 ECTS cr

Additional information: Bachelor Thesis includes 040024Y Knowledge and research II, Literature retrieval 4 ECTS cr

#### ***Scientific Practices and Research Skills 5 ECTS cr***

Upon completion of this area of competence, the student will know the foundations of philosophy of science in health sciences and the most common methods of collecting and analyzing research data. Furthermore, the student is able to plan, implement and report health sciences research.

#### **Studies included in the area of competence:**

352253A Research Methods in Health Sciences 5 ECTS cr

#### **MINOR SUBJECT 25 ECTS**

The minor subject studies for the Bachelor Degree in Health Sciences must include at least one study module with not less than 25 ECTS cr completed at the University of Oulu or some other university. Also study modules (basic or subject studies) of at least 25 ECTS cr completed at the Open University may be credited in the minor subject. The student may start minor subject for their later degree in Master of Health Sciences during their Bachelor studies according to their Personal Study Plan (e-PSP).

For students of the Health Sciences Teacher Education compulsory minor subject is Basic Studies in Education 25 ECTS cr or Basic Studies in Adult Education 25 ECTS cr completed or to be completed at the University of Oulu or at some other university.

Following study module arranged by the Research Unit of Nursing Science and Health Management may be included in Minor Studies:

### **Health Promotion 25 ECTS cr:**

352261A Health Promotion 10 ECTS cr

353113S The Effective Patient Education in Nursing and Nursing Science 8 ECTS cr

335562A\_Supportive Environments for Health and Wellbeing 7 ECTS cr

Information about the minor subjects offered by faculties of the University of Oulu you will find here <http://www oulu.fi/university/node/34982>.

### **OPTIONAL STUDIES 78 ECTS cr**

Optional studies are basic, subject or advanced studies and study modules completed at the Research Unit of Nursing Sciences and Health Management or other units of the University of Oulu or at other national/international universities. Optional studies may include single study units.

### **ARRANGEMENTS FOR RECOGNITION OF PRIOR LEARNING**

Recognition of prior learning (RPL) follows the main principles as defined by the University of Oulu. According to [University of Oulu Education Regulations](#) paragraph 27 *Accreditation of studies taken elsewhere and recognition of prior learning*, the principles concerning accrediting studies taken in other Finnish and foreign universities and other educational institutions are stipulated in the curricula or other regulations, unless they have not been stipulated elsewhere. Decision on recognition of prior learning for each student is made by the Director of the programme in question. For further information see <http://www oulu.fi/university/node/34963>

#### **Provisions of Recognition of Prior Learning in the Degree Programme in Health Sciences**

Studies in the field of health care to be credited from a university of applied sciences or from vocational qualifications (length of studies at least 3.5 years) do not require separate application procedure for recognition of prior learning (RPL).

For recognition of **basic and intermediate studies** completed and accepted earlier as **complete study modules** at the Open University or at other universities than the University of Oulu the student must present a witnessed certificate of the studies. The studies presented for recognition must correspond to the standard, required from the university studies and be applicable to student's major subject.

For recognition of individual study units completed at the Open University or at other universities than the University of Oulu the student must follow a separate application procedure. In principle, individual study units older than five years cannot be credited. This restriction doesn't concern recognition of the complete study modules. During the transitional period of implementation of the new curriculum (2014-2017), when necessary, also the cases with recognition of individual study units may be dealt with separately.

Study units or study modules, completed earlier and included in a previous degree may not be included as such in a new degree. However, through the RPL-process competence acquired in this context may be identified and recognized.

Application form for recognition of prior learning can be found in web pages of the Faculty of Medicine, Oulu University <http://www oulu.fi/ltk/node/1617>.

Application for recognition of prior learning has to be submitted to the teacher responsible for the study unit in question. The decision will be made by the Director of the programme in question. The decisions on credit transfer for language and communication studies are made in the Extension School Languages and Communication Education.

Based on a prior Master's degree from a university of applied sciences the student can apply for possibility to demonstrate her/his competence related to Bachelor's degree during a competence performance day. The student must have special expertise required for the Bachelor degree. Student's personal teacher evaluates student's overall

situation and guides her/him in choosing the right study process. The student completes a self-evaluation and compares correspondence and level of her/his acquired competence to the learning outcomes required for the Bachelor degree. The student prepares and submits-required material for demonstration of the competence in accordance with the agreed timetable. The student cannot retake the demonstration. If the demonstration is not accepted, the student must complete the Bachelor degree in its entirety. In case of successful completion of the competence performance day, the student will continue studies in the master's programme. Additional information on competence performance day will be provided by the end of June 2017.

### **Studies, which can be credited in the Bachelor's Degree in Health Sciences**

#### **GENERAL STUDIES**

352001Y Guidance for Study and Working Experience, Study Tutorials 2 ECTS cr

0,5 ECTS cr of the ECTS cr of the course can be credited based on prior higher education degree.

**901040Y Second Official Language (Swedish), Written Skills 1 ECTS cr**

**901041Y Second Official Language (Swedish), Oral Skills 2 ECTS cr**

The courses, 3 ECTS cr in total, can be credited based on prior higher education degree.

**902008Y Academic English 3 ECTS cr**

The course 3 ECTS cr can be credited based on prior higher education degree.

**900008Y Basics of Oral Communication 3 ECTS cr**

The course 3 ECTS cr can be credited based on prior higher education degree.

**040021Y Knowledge and Research I, Tools 1 ECTS cr**

**040022Y Knowledge and Research I, Written assignment 1,5 ECTS cr**

The courses, 2,5 ECTS cr in total, can be credited based on prior higher education degree.

Students, who don't have prior higher education degree, will complete general studies 17 ECTS cr in accordance with individually prepared Personal Study Plan (e-PSP).

#### **BASIC STUDIES**

Basic studies in health sciences 25 ECTS cr can be credited based on prior degree in health care from university of applied sciences or applicable study module in health sciences completed at universities.

Students, who don't have prior degree in health care from university of applied sciences or applicable study modules in health sciences completed at the universities will complete basic studies in accordance with individually prepared Personal Study Plan (e-PSP).

#### **MINOR SUBJECT**

The minor subject of 25 ECTS cr can be credited based on prior Master's or doctoral degree.

#### **OPTIONAL STUDIES**

Students with prior higher education degree: Optional studies can be credited based on prior higher education degree.

Students with other degree: 53 ECTS cr of the optional studies can be credited based on prior vocational or professional upper secondary education qualifications in health care. The student must, however, complete study module of Health promotion 25 ECTS cr including 352261A Health Promotion 10 ECTS, 353113S The effective patient education in nursing and nursing science 8 ECTS, 352262A Supportive Environments for Health and Wellbeing 7 ECTS.

## **STUDIES OF BACHELOR DEGREE IN HEALTH SCIENCES PER TERM**

### 1<sup>st</sup> term / autumn

#### ***General studies***

352001Y Guidance for Study and Working Experience, Study Tutorials 1,5 ECTS cr

#### ***Subject Studies***

353234A Health Management Science and Training in Expertise Development 10 ECTS

353235A Nursing Science and Training in Expertise Development 10 ECTS

352253A Research Methods in Health Sciences 5 ECTS

#### ***Minor studies 3.5 ECTS***

### 2<sup>nd</sup> term / spring

#### ***General studies***

040025Y Knowledge and Research III: Lessons and written examination 1,5 ECTS

040026Y Knowledge and Research III: Small group exercises 1 ECTS

040027Y Knowledge and Research III: Practical project 1 ECTS

#### ***Subject Studies***

352114A Bachelor Thesis 10 ECTS (Bachelor Thesis includes Knowledge and research II, Literature retrieval 4 ECTS)

352514A Maturity Test 0 ECTS

#### ***Minor studies 21.5 ECTS***

## **MASTER OF HEALTH SCIENCES (MHSc) 120 ECTS cr**

### **Master's Programme in Nursing Science**

#### **Learning Objectives for the Master's Degree in Health Sciences**

The learning objectives of the Master's Programme correspond to the aims of the Finnish [National Framework for Qualifications and other Learning](#).

#### **Multi-disciplinary and highly specialized nursing science knowledge and continued learning:**

- The student is able to analyze extensive and highly specialized knowledge of the concepts, theories and methods in nursing science at the level of an expert
- The student has the competence required for postgraduate studies and for continuous learning

#### **Analytical thinking and problem solving skills:**

- The student is able to analyze critically the issues related to nursing science and closely related disciplines; to solve challenging problems in accordance with evidence-based knowledge in education, research and innovation activities in social welfare and healthcare

#### **Collaboration and communication skills:**

- The student is able to work independently and cooperatively and evaluate one's own actions as well as actions of the group
- The student has adequate skills in oral and written communication and demonstration required for national and international collaboration (in Finnish, Swedish and in one foreign language).

#### **Technology skills:**

- Student is able to use diverse technology and digital solutions in retrieval of information, in communication and collaboration.

#### **Leadership and entrepreneurship:**

- Student in a role of an expert in clinical care and nursing science is able to manage issues and lead people, to make decisions and to develop inventively activities in collaboration with actors and entrepreneurs in the field of social welfare, health care

#### **Flexibility and ethics:**

- The student is able to work flexibly and in an ethically sustainable way in the changing operational environments of social welfare and healthcare

### **STRUCTURE OF THE MASTER'S DEGREE IN HEALTH SCIENCES**

Course Structure Diagram 2017- 2018:

<http://webcgi.oulu.fi/studiag/index.php?kieli=6&kaavio=497>

At the University of Oulu the Master's Programme in Health Sciences consists of following areas of competencies: Nursing Science, Scientific Practices and Research Skills, Clinical Specialist's Development in Nursing Science, Minor Subject and Optional Studies.

### **ADVANCED STUDIES IN NURSING SCIENCE 87 ECTS**

#### ***Nursing science 52 ECTS cr***

Upon completion of this area of competence, the student is able to analyze and evaluate critically multi-disciplinary and highly specialized nursing science and research, and to apply it to the working life in the field of social and health care. The student is able to solve demanding problems independently and collaboratively in health care research and innovation according to evidence-based practice. The student is able to manage issues and draw conclusions on operations in the field of health care. The student is able to assess actions of other individuals and groups at national and international level.

#### **Advanced studies included in the area of competence:**

353101S Nursing Science II- Scientific knowledge within nursing science as a basis for developing social and health care 5 ECTS cr

353215S Nursing science III- Leadership and innovation in evidence based practice 7 ECTS cr

353225S Master Thesis and Research Seminars 40 ECTS cr including part I and II and maturity test as follows:

353226S Master Thesis and Research Seminars Part I 15 ECTS cr

353227S Master Thesis and Research Seminars part II 25 ECTS cr

353205S Written Maturity Test 0 ECTS

### ***Scientific Practices and Research Skills 15 ECTS cr***

Upon completion of this area of competence, the student is able to define and interpret characteristics of qualitative and quantitative research and draw conclusions on main methodological issues. The student is able to apply ethically different types and approaches of research for working life problem solving in the field of social welfare and health care. The student is able to use digital technology independently for retrieval of evidence-based information, communication and collaboration.

#### **Advanced studies included in the area of competence:**

353203S The Application of Research Methods in Health Sciences 10 ECTS cr

352252AS Methods of Statistical Analysis in Health Sciences 5 ECTS cr

### ***Specialist's Development in Nursing Science 20 ECTS cr:***

The student is able to evaluate basics of clinical care and nursing science, expert roles and task descriptions and future requirements at national and international level. The student is able to work as an expert in different multidisciplinary working teams, solve problems critically and lead evidence-based practice and development of nursing.

#### ***Advanced studies included in the area of competence:***

351180S Fundamentals of Clinical Care and Nursing Science 5 ECTS cr

352227A Leadership in Evidence Based Practice 5 ECTS cr

352226S Clinical Training 10 ECTS cr

### **MINOR SUBJECT 25 ECTS**

The student may orient the studies according to personal objectives and Personal Study Plan (e-PSP) by including in the degree university level study modules (at least 25 ECTS cr) of different sciences to be completed in Finland or abroad.

It could be, for example, Health Promotion study module (25 ECTS cr) arranged by the Research Unit of Nursing Science and Health Management including

#### **Health Promotion 25 ECTS:**

352261A Health Promotion 10 ECTS cr

353113S The Effective Patient Education in Nursing and Nursing Science 8 ECTS cr

352262A Supportive Environments for Health and Wellbeing 7 ECTS cr

Information about the minor subjects offered by faculties of the University of Oulu you will find here <http://www.oulu.fi/university/node/34982>.

### **OPTIONAL STUDIES 8 ECTS cr**

Optional studies are basic, intermediate or advanced studies and study modules completed at the Research Unit of Nursing Science and Health Management or other units of the University of Oulu and at other national/international universities. Optional studies may include single study units.

For example, following studies arranged by the Research Unit of Nursing Science and Health Management may be included in Optional Studies:

#### **Health Promotion 25 ECTS cr:**

352261A Health Promotion 10 ECTS cr

353113S The Effective Patient Education in Nursing and Nursing Science 8 ECTS cr

352262A Supportive Environments for Health and Wellbeing 7 ECTS cr

#### **Other single study units:**

354202A Research Ethics in Health Sciences 5 ECTS

354205A Health Sciences Marketing 2 - 5 ECTS

352228A Elective Course on Advanced Research 3 – 10 ECTS

### **ARRANGEMENTS FOR RECOGNITION OF PRIOR LEARNING**

Recognition of prior learning (RPL) follows the main principles as defined by the University of Oulu. According to [University of Oulu Education Regulations](#) paragraph 27 *Accreditation of studies taken elsewhere and recognition of prior learning*, the principles concerning accrediting studies taken in other Finnish and foreign universities and other educational institutions are stipulated in the curricula or other regulations, unless they have not been stipulated elsewhere. For further information see <http://www.oulu.fi/university/node/34963>

Recognition of studies based on prior Master's degree in health care from university of applied sciences, and studies completed at other universities requires separate application procedure. Application forms can be found in web pages of the Faculty of Medicine of the University of Oulu <http://www.oulu.fi/ltk/node/1617>.

Application for recognition of prior learning has to be submitted to the teacher responsible for the study unit in question. The decision is made by the Programme Director of the Master's Programme in Nursing Science.

### **Studies to be credited in Master's Degree in Health Sciences**

Based on a previous Master's degree from a university of applied sciences not more than 8 ECTS cr may be credited in optional studies by the Programme Director of the Master's Programme in Nursing Science. The recognition of the prior studies requires separate application procedure (RPL- process).

### **STUDIES OF MASTER'S DEGREE IN HEALTH SCIENCES PER TERM**

1<sup>st</sup> term / autumn

***Nursing Science***

353101S Nursing Science II- Scientific knowledge within nursing science as a basis for developing social and health care 5 ECTS cr

***Scientific Practices and Research Skills***

353203S The Application of Research Methods in Health Sciences 10 ECTS cr

352252S Methods of Statistical Analysis in Health Sciences 5 ECTS cr

***Specialist's Development in Nursing Science***

351180S Fundamentals of Clinical Care and Nursing Science 5 ECTS cr

352227S Leadership in Evidence Based Practice 5 ECTS cr

2<sup>nd</sup> term / spring

***Nursing Science***

353215S Nursing science III- Leadership and innovation in evidence based practice 7 ECTS cr

353226S Master Thesis and Research Seminars Part I 5 ECTS cr

***Specialist's Development in Nursing Science***

352226S Clinical Training 10 ECTS cr

***Minor Subject 5 ECTS cr***

***Optional Studies 3 ECTS cr***

3<sup>rd</sup> term/autumn

***Nursing Science***

353226S Master Thesis and Research Seminars Part I 10 ECTS

353227S Master Thesis and Research Seminars part II 20 ECTS

4<sup>th</sup> term / spring

353227S Master Thesis and Research Seminars part II 5 ECTS

353205S Written maturity test 0 ECTS

***Minor Subject 20 ECTS***

***Optional Studies 5 ECTS***

## Tutkintorakenteet

**Undergraduate Multidisciplinary Degree Programme in Health Sciences,  
BHSc**

Tutkintorakenteen tila: published

Lukuvuosi: 2017-18

Lukuvuoden alkamispäivämäärä: 01.08.2017

### **General Studies (vähintään 17 op)**

See crediting principles in Course catalogue 2017-18 and in individual course descriptions.

352001Y: Guidance for Study and Working Experience, Study Tutorials, 2 op

### **Language and Communication Skills (vähintään 15 op)**

See crediting principles in the text part of the Course catalogue 2017-18 and individual course descriptions. Knowledge and research II is included in the Bachelor Thesis.

902008Y: Academic English, 3 op

900008Y: Basics of Oral Communication, 3 op

A500105: Knowledge and Research, 3,5 - 10,5 op

040024Y: Knowledge and research II, Literature retrieval, 4 op

040025Y: Knowledge and research, Lessons and written examination, 1,5 op

040027Y: Knowledge and research, Practical project, 1 op

040026Y: Knowledge and research, Small group exercises, 1 op

040021Y: Knowledge and research, Tools, 0,5 - 1 op

040022Y: Knowledge and research, Written assignment, 1,5 op

901041Y: Second Official Language (Swedish), Oral Skills, 2 op

901040Y: Second Official Language (Swedish), Written Skills, 1 op

### **Health Sciences Basic Studies (vähintään 25 op)**

Part of the Health Sciences' area of competence (in total 55 ECTS cr).

See crediting principles in the text part of the Course catalogue 2017-18 and individual course descriptions.

351205P: Foundations of Health Care Education, 5 op

351207P: Foundations of Health Care Legislation, 5 op

351204P: Foundations of Philosophy and Research Methods in Health Sciences, 5 op

351206P: Health Care Systems in Finland and Inter-professional Networking, 5 op

351203P: Introduction to Health Sciences, 5 op

### **Health Sciences Subject Studies (vähintään 35 op)**

30 ECTS cr of the subject studies come under area of competence "Health sciences" and 5 ECTS cr - under area of competence "Scientific Practices and Research Skills".

352114A: Bachelor thesis, 6 op

353234A: Health Management Science and Training in Expertise Development, 10 op

352514A: Maturity test, 0 op

353235A: Nursing Science and Training in Expertise Development, 10 op

352253A: Research Methods in Health Science, 5 op

### **Minor Subject (vähintään 25 op)**

The minor subject studies for the undergraduate degree in Bachelor of Health Sciences must include at least one study module of university level with not less than 25 ECTS cr. It can be, for example, Health Promotion study module (25 ECTS cr), organized by the Research Unit of Nursing Science and Health Management (University of Oulu) including the courses listed below. Those Bachelor students with major in nursing science, who apply for

Master's Programme in Health Sciences Teacher Education, the obligatory minor subject is Basic Studies in Education or in Adult Education (25 ECTS cr). They must be completed during Bachelor studies, if not completed earlier.

See crediting principles in the text part of the Course catalogue 2017-18.

Health Promotion 25 ECTS:

352261A Health Promotion 10 ECTS

353113S The Effective Patient Education in Nursing and Nursing Science 8 ECTS

335562A Supportive Environments for Health and Wellbeing 7 ECTS

### **Optional Studies (vähintään 78 op)**

Optional studies are basic studies, intermediate studies or advanced studies and study modules completed at the Research Unit of Nursing Science and Health Management, other units of the University of Oulu and at other national /international universities. Optional studies may include single courses. See crediting principles in the text part of the Course catalogue 2017-18.

## **Master's Programme in Nursing Science, MHSc**

Tutkintorakenteen tila: published

Lukuvuosi: 2017-18

Lukuvuoden alkamispäivämäärä: 01.08.2017

### **Advanced studies in nursing science (vähintään 87 op)**

Nursing science 52 ECTS cr

Scientific practices and research skills 15 ECTS cr

Specialist's Development in Nursing Science 20 ECTS cr

352226S: Clinical training, 10 op

351180S: Fundamentals of clinical care and nursing science, 5 op

352227S: Leadership in Evidence Based Practice, 5 op

353226S: Master Thesis and Research Seminars Part I, 15 op

353227S: Master Thesis and Research Seminars part II, 25 op

353225S: Mater Thesis and Research Seminars, 40 op

352252S: Methods of Statistical Analysis in Health Sciences, 5 op

353101S: Nursing Science II: Scientific knowledge within nursing science as a basis for developing social and health care, 5 op

353215S: Nursing science III: Leadership and innovation in evidence based practice, 7 op

353203S: The Application of Research Methods in Health Sciences, 10 op

353205S: Written maturity test, 0 op

## Minor Subjects (vähintään 25 op)

The student may orient the studies according to her/his personal objectives and Personal Study Plan (E-PSP) by including in the degree university level study modules (at least 25 ECTS cr) from different sciences to be completed in Finland or abroad.

It could be, for example, Health Promotion study module (25 ECTS cr), organized by the Research Unit of Nursing Science and Health Management (University of Oulu) including

### Health Promotion 25 ECTS:

352261A Health Promotion 10 ECTS

353113S The Effective Patient Education in Nursing and Nursing Science 8 ECTS

352262A Supportive Environments for Health and Wellbeing 7 ECTS

## Optional studies (vähintään 8 op)

Following studies arranged by the Research Unit of Nursing Science and Health Management may be included in optional studies:

### Health Promotion 25 ECTS cr:

352261A Health Promotion 10 ECTS

353113S The Effective Patient Education in Nursing and Nursing Science 8 ECTS

352262A Supportive Environments for Health and Wellbeing 7 ECTS

### Other courses:

354202A Research Ethics in Health Sciences 5 ECTS

354205A Health Sciences Marketing 2 - 5 ECTS

352228A Elective Course on Advanced Research 3 - 10 ECTS

## Opintojaksojen kuvaukset

### Tutkintorakenteisiin kuuluvien opintokohteiden kuvaukset

#### 352001Y: Guidance for Study and Working Experience, Study Tutorials, 2 op

**Voimassaolo:** 01.08.2017 -

**Opiskelumuoto:** General Studies

**Laji:** Course

**Vastuuyksikkö:** Health Sciences

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Kristina Mikkonen

**Opintokohteen kielet:** Finnish

**ECTS Credits:**

2 ECTS cr

**Language of instruction:**

Finnish

**Timing:**

1<sup>st</sup> autumn term, 1st period. Obligatory course for the first year students.

**Learning outcomes:**

During the course the student will integrate into university and multi-disciplinary scientific community and into the student group of one's discipline. The student will learn to plan one's studies and career, and to evaluate one's expertise and actions as a learner in relation to one's career plans. The student will receive a clear conception of the studies as a part of a lifelong learning process.

**Contents:**

The University of Oulu and the Research Unit of Nursing Science and Health Management as learning environment. Student's status, rights and obligations. Student organizations. Presentation of degree programmes, planning of studies, study techniques, assessment, tutorials with senior tutor. Planning of own career - goals, recognition of one's strengths/weaknesses, development and orientation of working life skills with help of studies.

**Mode of delivery:**

Blended teaching

**Learning activities and teaching methods:**

Tutorials with senior tutor 3h. Contact teaching 17h including small group counselling, info-meetings. Participation in and planning of events of research unit 20h including learning development day and alumni meetings. Independent studying 14h.

**Target group:**

Undergraduate health science students.

**Prerequisites and co-requisites:**

None

**Recommended or required reading:**

Current scientific literature and research

**Assessment methods and criteria:**

Continuous assessment. Active participation in events and lectures, preparing of the Personal Study Plan (e-PSP) and its evaluation.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**

pass / fail

**Person responsible:**

University teacher, doctoral candidate

**Working life cooperation:**

Visit to a social welfare and health care organization, alumni meeting.

**Other information:**

0,5 ECTS cr of this course can be credited on the basis of prior higher education degree.

## 902008Y: Academic English, 3 op

**Voimassaolo:** 01.08.1995 -

**Opiskelumuoto:** Language and Communication Studies

**Laji:** Course

**Vastuuyksikkö:** Languages and Communication

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** English

**Leikkaavuudet:**

ay902008Y    Academic English (OPEN UNI)    3.0 op

**Proficiency level:**

CEFR B2/C1

**Status:**

Compulsory course

**Required proficiency level:**

Students are expected to have had English as their A1 or A2 language at school or have acquired equivalent skills.

**ECTS Credits:**

3 ECTS credits

**Language of instruction:**

English

**Timing:**

1st year spring term or 2nd year spring term (the course is offered every other academic year.)

**Learning outcomes:**

**Having completed the course, students will be able to**

- understand and summarize academic/scientific texts in their own field within health sciences
- use appropriate academic/scientific vocabulary of their own field in writing short text types (bio, cover letter, questionnaire, survey, summary/abstract),
- use English to communicate knowledge and express opinion in conversations related to their profession,
- respond appropriately and convincingly to the contribution of other speakers in a professional or academic conversation, meeting and/or conference,
- give a presentation on a professional or academic topic related to their field.

**Contents:**

The course material is a selection of relevant academic and professional literature. Based on this, the English language practice tasks have been designed to support the communicative and professional development of students of health science education, health science administration and management.

**Mode of delivery:**

Contact and online teaching, independent study.

**Learning activities and teaching methods:**

Reading journal articles, composing glossaries on self-chosen articles, presenting and discussing them; preparing a questionnaire in your own field and an accompanying cover letter; academic writing with a special focus on short text types in the field of Health Sciences (summary/ abstract, bio, cover letter, questionnaire, survey); presentation skills and giving a field-related presentation. During the course, you will develop your speaking skills necessary in professional conversations, job interviews, meetings and/or conferences, etc.

Contact teaching and tutorials (24 hrs), completion of home assignments: journals, glossaries, questionnaire and cover letter (20 hrs), presentation of self-selected literature (16 hrs) and writing tasks (20 hrs). Some course work can be completed online.

**Target group:**

Students in the degree programs of Health Sciences (nursing science, teacher education program in health sciences, and health management science).

**Prerequisites and co-requisites:**

-

**Recommended optional programme components:**

-

**Recommended or required reading:**

Specific texts and material prepared by the teacher. Information will be provided at the beginning of the course. Material will be available in Optima.

**Assessment methods and criteria:**

The course requirements include active participation in classroom work (24 hrs) and completion of home assignments: journals, glossaries, questionnaire and cover letter (20 hrs), presentation of self-selected literature (16 hrs) and writing tasks (20 hrs). Alternatively, an end-of-course examination may be offered. Some course work can be completed online.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**

pass/fail

**Person responsible:**

Satu Rusko

**Working life cooperation:**

-

**Other information:**

In line with the recognition of prior learning regulations in place at the university (see: <http://www oulu fi/kielikoulutus/ahot>), other language courses completed in a higher educational institution will be accepted provided they cover the relevant field and level of communication (B2 on the CEFR scale). Students who completed their upper secondary or higher education in an English language programme/country, and/or IB- diploma, or passed the English language exemption test (reading comprehension and written / oral production) will be exempted from the course in accordance with the recognition of prior learning process. (See: AHOT <http://www oulu fi/kielikoulutus/ahot>)

Students who wish **to be exempted from attendance** can take an **exemption test** in reading field-related academic texts and give an academic presentation. In this way **students can obtain the credits without attendance**. The

exemption exam is voluntary and can be taken only once. Students **who wish to do this should inform the contact teacher** (satu.rusko(at)oulu.fi) by the end of January. The exemption test and presentation of oral production will be organised during February-March. Students not exempted in the above ways are required to participate in the course. Information on the time and place of the classes is provided on the home pages of the Department of Health Sciences.

## 900008Y: Basics of Oral Communication, 3 op

**Voimassaolo:** 01.08.1995 -

**Opiskelumuoto:** Language and Communication Studies

**Laji:** Course

**Vastuuyksikkö:** Languages and Communication

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

ay900008Y Basics of Oral Communication (OPEN UNI) 3.0 op

**Proficiency level:**

-

**Status:**

-

**Required proficiency level:**

-

**ECTS Credits:**

3 ECTS

**Language of instruction:**

Finnish

**Timing:**

2nd year spring term. Next time on Spring 2019.

**Mode of delivery:**

Contact teaching

**Learning activities and teaching methods:**

26 hours of contact teaching and approximately 55 hours of independent study.

**Recommended optional programme components:**

-

**Recommended or required reading:**

Material provided by the teacher.

**Grading:**

pass / fail

**Person responsible:**

Mikkola, Outi

**Working life cooperation:**

-

**Other information:**

-

## A500105: Knowledge and Research, 3,5 - 10,5 op

**Voimassaolo:** 09.01.2015 -

**Opiskelumuoto:** Other Entity

**Laji:** Study module

**Vastuuyksikkö:** Medicine

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Pentti Nieminen

**Opintokohteen kielet:** Finnish

**Voidaan suorittaa useasti:** Kyllä

Ei opintojaksokuvauksia.

## 040024Y: Knowledge and research II, Literature retrieval, 4 op

**Voimassaolo:** 01.08.2014 -

**Opiskelumuoto:** General Studies

**Laji:** Course

**Vastuuyksikkö:** Medicine

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Pentti Nieminen

**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

ay040024Y Knowledge and research II, Literature retrieval (OPEN UNI) 4.0 op

**ECTS Credits:**

4 ECTS cr

**Timing:**

1st year

**Learning outcomes:**

Upon completion of the course the student is familiar with the research process and with the characteristics of scientific information. The student acknowledges significance of scientific publications and is able to evaluate and use critically information sources. The student is able to use the key reference databases and basics of literature retrieval in medical, dental and health sciences and has learned to evaluate results of the retrieval and sources. The student is able to make good use of reference management software.

The student is familiar with basic principles of research ethics and good scientific practice. The student knows the phases and practices of publishing process.

The student is familiar with the main characteristics and analysis of research frames. The student is able to evaluate the role of different kind of illusions and coincidences in research results. The student has acquired preliminary knowledge of retrieval and statistical processing of data. The student is able to evaluate critically scientific publications in which statistical methods are applied. The student is familiar with principles of sound reporting of the research results.

**Contents:**

Scientific information:

General characteristics of scientific research, significance of scientific information, ethics in research, research methods from different points of view (clinical medicine, epidemiology, biomedicine and health sciences).

Reading of a scientific article:

Scientific journals and phases of publishing process, bibliometric, ethics of scientific communication, approaches and questions of different fields of medicine and health sciences, structure of a scientific article, research frames, possible illusions in research, statistical analysis of data and reporting the results, statistical and clinical significance, systematic reviews and meta-analyses.

Literature retrieval:

Library information services, medical and dental publications, scientific online journals, Medline, Medic, CINAHL, Scopus, Web of Science, Cochrane, electronic books, reference management software.

Special characteristics in medical research:

Ethical guidelines, regulations in clinical drug research, use of laboratory animals in scientific research, research groups.

**Mode of delivery:**

Blended teaching.

**Learning activities and teaching methods:**

040024Y (4 op) Knowledge Management and Research, Literature retrieval

**Target group:**

1<sup>st</sup> year Bachelor students of the Degree Programme in Health Sciences

2<sup>nd</sup> year Bachelor students of medical wellness technology

**Prerequisites and co-requisites:**

None.

**Recommended optional programme components:**

Knowledge Management and Research I (Tools; Written assignment) and III (Lessons and written examination; Small group exercises; Practical project)

902006Y Reading for Academic Purposes

902007Y Scientific Communication

**Recommended or required reading:**

Handouts / information from lectures and supplementary material for lessons in small groups

**Assessment methods and criteria:**

Participation in contact teaching obligatory for all students, active participation in group exercises and completion of learning assignments.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**

1,2,3,4,5, fail

Recognition of prior learning: The student has completed earlier study unit in scientific communication (basics of scientific research) covering specific features of dental, medical or health sciences and study unit with introduction to information retrieval and use of reference databases.

**Person responsible:**

University lecturer Pentti Nieminen

**Working life cooperation:**

None.

**Other information:**

From 2015 Curriculum onward, 040024Y Knowledge and research, literature retrieval 4 ECTS cr substitutes part of the earlier 040012Y-04 Scientific communication, assignments.

From 2017 Curriculum onward, for Bachelor students of degree programme in health sciences the Knowledge and research II is integrated in course 352114A Bachelor thesis 10 ECTS cr.

## 040025Y: Knowledge and research, Lessons and written examination, 1,5 op

**Voimassaolo:** 01.08.2014 -

**Opiskelumuoto:** General Studies

**Laji:** Course

**Vastuuyksikkö:** Medicine

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Pentti Nieminen

**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

ay040025Y Knowledge and research, Lessons and written examination (OPEN UNI) 1.5 op

**ECTS Credits:**

1,5 ECTS

**Timing:**

1<sup>st</sup> year Bachelor students of degree programme in health sciences

2<sup>nd</sup> year Students of degree programmes in medicine and dentistry

3<sup>rd</sup> year Bachelor students of medical wellness technology

**Learning outcomes:**

Upon completion of the course, the student is familiar with basics and main methods of planning, data retrieval, analysis, reporting and statistical inference of statistical research in medical, dental and health sciences. The student is able to evaluate critically scientific publications, which have applied statistical methods.

**Contents:**

Aims and phases of statistical research, from research plan to practice, retrieval of data, inspection of variable distributions (frequencies, graphs and statistics), basics and methods in statistical inference (estimates, significance tests and confidence limits), basic methods in comparing groups and estimating associations between variables, specific methods applied in medical statistical research. Critical approach when reading scientific articles.

**Mode of delivery:**

Contact teaching.

**Learning activities and teaching methods:**

040025Y Knowledge and research, Lessons and written examination, 1.5 ECTS cr.

**Target group:**

Medical, dental and medical wellness technology students, Bachelor students of the degree programme in health sciences.

**Prerequisites and co-requisites:**

None.

**Recommended or required reading:**

Handouts/material from lectures and supplementary material for group exercises.

Uhari M ja Nieminen P: Epidemiologia ja biostatistiikka. Toinen painos Duodecim, 2012.

**Assessment methods and criteria:**

Written exam on lectures and supplementary material.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**

1,2,3,4,5, fail

Recognition of prior learning: The student has completed earlier at least 6 ECTS cr in statistics at the university. If the number of ECTS cr completed earlier is lower than 6 ECTS cr, the student must agree on supplementary studies with responsible teacher separately.

**Person responsible:**

University lecturer Pentti Nieminen

**040027Y: Knowledge and research, Practical project, 1 op**

**Voimassaolo:** 01.08.2014 -

**Opiskelumuoto:** General Studies

**Laji:** Course

**Vastuuyksikkö:** Medicine

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Pentti Nieminen

**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

ay040027Y Knowledge and research, Practical project (OPEN UNI) 1.0 op

**ECTS Credits:**

1 ECTS

**Timing:**

1<sup>st</sup> year Bachelor students of the degree programme in health sciences

2<sup>nd</sup> year Students of degree programmes in medicine and dentistry

3<sup>rd</sup> year Bachelor students of medical wellness technology

**Learning outcomes:**

Upon completion of the course the student is able to apply independently basic statistical methods for analysis of research data. The student masters reporting of results in accordance with good scientific reporting practices.

**Contents:**

Statistical basic methods, basics of statistical software, reporting of results, writing instructions.

**Mode of delivery:**

Blended teaching

**Learning activities and teaching methods:**

040027Y Knowledge and research, Small group exercises, 1 ECTS cr

**Target group:**

Medical, dental and medical wellness technology students, Bachelor students of the degree programme in health sciences.

**Prerequisites and co-requisites:**

None

**Recommended or required reading:**

Handouts/material from lectures and supplementary material for group work.

Uhari M ja Nieminen P: Epidemiologia ja biostatistiikka. Toinen painos Duodecim, 2012.

**Assessment methods and criteria:**

Written assignment which the student submits in Optima by given date. Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**

**Grading:** Pass/fail. Recognition of prior learning: The student has completed earlier at least 6 ECTS cr in statistics at the university. If the number of ECTS cr completed earlier is lower than 6 ECTS cr, the student must agree on supplementary studies with responsible teacher separately.

**Person responsible:**

University lecturer Pentti Nieminen

**040026Y: Knowledge and research, Small group exercises, 1 op**

**Voimassaolo:** 01.08.2014 -

**Opiskelumuoto:** General Studies

**Laji:** Course

**Vastuuyksikkö:** Medicine

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Pentti Nieminen

**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

ay040026Y Knowledge and research, Small group exercises (OPEN UNI) 1.0 op

**ECTS Credits:**

1 ECTS

**Timing:**

**Timing**

1<sup>st</sup> year Bachelor students of degree programme in health sciences

2<sup>nd</sup> year Students of degree programmes in medicine and dentistry

3<sup>rd</sup> year Bachelor students of medical wellness technology

**Learning outcomes:**

Upon completion of the course the student is familiar with basics and methods of statistical computing in the fields of medicine, dentistry and health sciences. The student is able to use independently statistical software for analysis of research data.

**Contents:**

Statistical basic methods: variable distributions (frequencies, graphs and statistics), basics and methods of statistical inference (estimates, significance tests and confidence limits), basic methods for comparing groups and estimating associations between variables.

**Mode of delivery:**

Contact teaching

**Learning activities and teaching methods:**

040026Y Knowledge and research, Small group exercises, 1 ECTS cr.

**Target group:**

Medical, dental and medical wellness technology students, Bachelor students of the degree programme in health sciences.

**Prerequisites and co-requisites:**

None

**Recommended or required reading:**

Handouts/material from lectures and supplementary material for group work

Uhari M ja Nieminen P: Epidemiologia ja biostatistiikka. Toinen painos Duodecim, 2012.

**Assessment methods and criteria:**

Active participation in exercises. Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**

Pass/fail. Recognition of prior learning: The student has completed earlier at least 6 ECTS cr in statistics at the university. If the number of ECTS cr completed earlier is lower than 6 ECTS cr, the student must agree on supplementary studies with responsible teacher separately.

**Person responsible:**

University lecturer Pentti Nieminen

**Working life cooperation:**

No.

## **040021Y: Knowledge and research, Tools, 0,5 - 1 op**

**Voimassaolo:** 01.08.2014 -

**Opiskelumuoto:** General Studies

**Laji:** Course

**Vastuuyksikkö:** Medicine

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Pentti Nieminen

**Opintokohteen kielet:** Finnish

**ECTS Credits:**

1 ECTS

**Timing:**

1st year.

**Learning outcomes:**

Upon completion of the course the student is familiar with the information technology infrastructure provided for joint use by the University of Oulu. The student is able to use independently workstations and telecommunication services of the Faculty of Medicine and software and library services most relevant for studies. The student masters basics of scientific writing.

**Contents:**

Workstations, information security and privacy protection, telecommunication networks, software relevant for studies, basics of scientific writing.

Guidelines for written assignments and word processing:

Structure of written assignments / thesis, reporting of findings, tables and graphs, citing and references.

**Mode of delivery:**

Blended teaching.

**Learning activities and teaching methods:**

040021Y (1 ECTS) Knowledge Management and Research, Tools

**Target group:**

Bachelor students of the Degree Programme in Health Sciences.

**Prerequisites and co-requisites:**

None.

**Recommended optional programme components:**

Knowledge Management and Research II

902006Y Reading for Academic Purposes

902007Y Scientific Communication

**Recommended or required reading:**

Handouts/information from lectures and supplementary material for lessons in tutorial groups.

**Assessment methods and criteria:**

Active participation in lessons in tutorial groups; completion of learning assignments with pass.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**

Pass/fail.

Recognition of prior learning: From 2017 Curriculum onward, this study unit can be credited for Bachelor students of the Degree Programme in Health Sciences on the base of prior higher education degree.

**Person responsible:**

University lecturer Pentti Nieminen

**Working life cooperation:**

None

**Other information:**

From 2015 Curriculum onward, A500105 is substituting course 040012Y Knowledge and research

## 040022Y: Knowledge and research, Written assignment, 1,5 op

**Voimassaolo:** 01.08.2014 -

**Opiskelumuoto:** General Studies

**Laji:** Course

**Vastuuyksikkö:** Medicine

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Pentti Nieminen

**Opintokohteen kielet:** Finnish

**ECTS Credits:**

1,5 ECTS cr

**Timing:**

1st year

**Learning outcomes:**

Upon completion of the course the student masters basics of scientific writing. The student is familiar with the scientific writing process and is able to plan and produce a written assignment. The student is able to define the topic of a written assignment, follow the given writing instructions and, when writing, apply principles of good scientific practice.

**Contents:**

Structure of written assignments / thesis, text arrangement and editing, linguistic form, reporting of findings, tables and graphs, citing and references, bibliography.

**Mode of delivery:**

Blended teaching.

**Learning activities and teaching methods:**

040022Y (1,5 ECTS) Knowledge and Research, Written assignment

**Target group:**

Bachelor students of the Degree programme in Health Sciences

**Prerequisites and co-requisites:**

None.

**Recommended optional programme components:**

Knowledge and Research, Literature retrieval

**Recommended or required reading:**

Handouts / information from lectures, guidebook for written assignments and writing instructions

**Assessment methods and criteria:**

Completion of an independent written practical assignment with pass.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**

Pass/fail. Recognition of prior learning: From 2017 Curriculum onward, this course can be credited for Bachelor students of the Degree Programme in Health Sciences on the base of prior higher education degree.

**Person responsible:**

University lecturer Pentti Nieminen.

**Working life cooperation:**

None

**Other information:**

From 2015 Curriculum onward, A500105 is substituting course 040012Y Knowledge and research

**901041Y: Second Official Language (Swedish), Oral Skills, 2 op**

**Voimassaolo:** 01.08.2014 -

**Opiskelumuoto:** Language and Communication Studies

**Laji:** Course

**Vastuuyksikkö:** Languages and Communication

**Opintokohteen kielet:** Swedish

**Leikkaavuudet:**

ay901041Y Second Official Language (Swedish), Oral Skills (OPEN UNI) 2.0 op

**901040Y: Second Official Language (Swedish), Written Skills, 1 op**

**Voimassaolo:** 01.08.2014 -

**Opiskelumuoto:** Language and Communication Studies

**Laji:** Course

**Vastuuyksikkö:** Languages and Communication

**Opintokohteen kielet:** Swedish

**Leikkaavuudet:**

ay901040Y Second Official Language (Swedish), Written Skills (OPEN UNI) 1.0 op

**351205P: Foundations of Health Care Education, 5 op**

**Opiskelumuoto:** Basic Studies

**Laji:** Course

**Vastuuyksikkö:** Health Sciences

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

ay351205P Foundations of Health Care Education (OPEN UNI) 5.0 op

**ECTS Credits:**

5 ECTS cr

**Language of instruction:**

Finnish

**Timing:**

Autumn term

**Learning outcomes:**

The student is able to define and describe general principles of Finnish social and healthcare education system (ISCED-classification) and main features of the programmes of the Finnish National Board of Education. The student is able to identify main goals, strategies, international collaboration and partners of the Finnish Ministry of Education and Culture. The student is able to structure gained knowledge in learning diary and in assessment of one's learning.

**Contents:**

Social and health care education system. Objectives, goals and different education and training policies of Finnish education/education system. Legislation of Finnish higher education. Internationalization of Finnish higher education institutions.

**Mode of delivery:**

Tutored studying in the e-learning environment Optima.

**Learning activities and teaching methods:**

Independent studying, reading of literature 60h, peer evaluation of learning diaries 17h, evaluation of retrieved information and preparation of written assignments 58h.

**Target group:**

Undergraduate health science students.

**Prerequisites and co-requisites:**

None

**Recommended or required reading:**

Materials, publications on website of the Ministry of Education and Culture, legislation related to higher education, publications of Central Statistical Office of Finland/ISCED.

**Assessment methods and criteria:**

Independent studying, familiarizing with literature and completion of written assignments. Continuous assessment is applied.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**

Pass / fail

**Person responsible:**

University teacher / Doctoral candidate (nursing science)

**Working life cooperation:**

Working life cases are integrated into the course assignments.

**Other information:**

This course is part of the Basic Studies in Health Sciences, which can be credited based on prior degree in health care completed at the University of Applied Sciences or applicable study modules in health sciences completed at the universities. Students who don't have prior degree in health care from university of applied sciences or applicable study modules in health sciences completed at the universities will complete Basic Studies in accordance with individually prepared electronic Personal Study Plan (e-PSP).

## **351207P: Foundations of Health Care Legislation, 5 op**

**Opiskelumuoto:** Basic Studies

**Laji:** Course

**Vastuuyksikkö:** Health Sciences

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

ay351207P Foundations of Health Care Legislation (OPEN UNI) 5.0 op

**ECTS Credits:**

5 ECTS cr

**Language of instruction:**

Finnish

**Timing:**

Autumn term

**Learning outcomes:**

The student is able to define principals of Finnish health care legislation. The student is able to describe and evaluate critically foundations of health care management.

**Contents:**

Legislation in health care (promotion of health, social and health services, staff of social and health care services, equality). Legislation in health care administration, basics of health care management.

**Mode of delivery:**

Tutored studying in the e-learning environment "Optima".

**Learning activities and teaching methods:**

Independent studying, reading of literature 77h, evaluation of retrieved information and completion of a written assignment 58h.

**Target group:**

Undergraduate health science students.

**Prerequisites and co-requisites:**

None

**Recommended or required reading:**

Websites and publications of the Parliament of Finland, the Ministry of Social Affairs and Health, Finland, the Central Statistical Office of Finland and the Ministry of Justice, Finland. Finnish legislation. Other relevant national and international scientific literature.

**Assessment methods and criteria:**

Active and independent studying. Familiarizing with literature and completion of a written assignment. The course is assessed based on the written assignment.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**

Pass / fail

**Person responsible:**

Doctoral candidate (health management science)

**Other information:**

This course is part of the Basic Studies in Health Sciences, which can be credited based on prior degree in health care completed at the University of Applied Sciences or applicable study modules in health sciences completed at the universities. Students who don't have prior degree in health care from university of applied sciences or applicable study modules in health sciences completed at the universities will complete Basic Studies in accordance with individually prepared electronic Personal Study Plan (e-PSP).

**351204P: Foundations of Philosophy and Research Methods in Health Sciences, 5 op**

**Opiskelumuoto:** Basic Studies

**Laji:** Course

**Vastuuyksikkö:** Health Sciences

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

ay351204P Foundations of Philosophy and Research Methods in Health Sciences (OPEN UNI) 5.0 op

**ECTS Credits:**

5 ECTS cr

**Language of instruction:**

Finnish

**Timing:**

Autumn term

**Learning outcomes:**

The student is able to

- define the philosophy, ethics and values of health care

- identify and define the norms and ethical principles which are related to status of the client and are guiding the operations in health care
- identify the most central ethical problems in health care, compare the ethical norms and regulations that are turning out in health care and patient care in relation to different professional and work cultures.
- evaluate critically ethical decision making in the health care.
- define Evidence Based Practice
- identify different stages of a research process and define special characteristics of qualitative and quantitative research.
- identify the main ethical principles of research in health sciences and choose references relevant to one's research
- apply basics of scientific writing in one's own work

**Contents:**

Ethical principles and professional ethics in health care, discussion of ethical questions from different perspectives and the effect of culture in health care. Evidence-based practice. Preparation of literature review. Special characteristics of qualitative and quantitative research. Stages of a research process. Basics of scientific writing and referencing.

**Mode of delivery:**

Tutored studying in e-learning environment Optima.

**Learning activities and teaching methods:**

Independent studying and reading literature 80h, evaluating the retrieved information and writing of an assignment 40h. Preparation for and completion of an on-line exam 15h.

**Target group:**

Undergraduate students in health science.

**Prerequisites and co-requisites:**

None

**Recommended or required reading:**

Materials/reports from webpages of the National Advisory Board on Social Welfare and Health Care Ethics "ETENE", Ethical foundations of the social and health care (publication 32/ETENE), and other relevant national and international scientific literature provided for in Optima.

**Assessment methods and criteria:**

Active and independent studying is required. Familiarizing with literature and completion of a written assignment. This course will be assessed based on written assignment and on-line exam. Continuous assessment including self-evaluation and teacher's evaluation.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**

Pass / fail

**Person responsible:**

Doctoral candidate (nursing science)

**Working life cooperation:**

Working life cases are integrated into the course assignments.

**Other information:**

This course is part of the Basic Studies in Health Sciences, which can be credited based on prior degree in health care completed at the University of Applied Sciences or applicable study modules in health sciences completed at the universities. Students who don't have prior degree in health care from university of applied sciences or applicable study modules in health sciences completed at the universities will complete Basic Studies in accordance with individually prepared electronic Personal Study Plan (e-PSP).

**351206P: Health Care Systems in Finland and Inter-professional Networking, 5 op**

**Opiskelumuoto:** Basic Studies

**Laji:** Course

**Vastuuyksikkö:** Health Sciences

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

ay351206P Health Care Systems in Finland and Inter-professional Networking (OPEN UNI) 5.0 op

**ECTS Credits:**

5 ECTS cr

**Language of instruction:**

Finnish

**Timing:**

Autumn term

**Learning outcomes:**

The student is able to define principles of the Finnish health care system and public health programs and compare them to programs of the World Health Organization. The student is able to identify main functions and forms of inter-professional networking in health care. The student is able to deepen one's knowledge and apply it in one's learning assignment. The student is able to plan and structure a new health promotion program and justify it ethically, scientifically and from a client's health perspective.

**Contents:**

Ministry of Social Affairs and Health, its goals and duties/responsibilities, strategies and programmes. National Institute for Health and Welfare, Finnish health care policy. Finnish social and health care services, organizations and social security. World Health Organization. Planning of an inter-professional health promotion programme. Inter-professional co-operation and support for the client.

**Mode of delivery:**

Tutored studying in the e-learning environment "Optima".

**Learning activities and teaching methods:**

Independent studying in "Optima". During the first part of the course: reading of literature and on-line exam 81h. During the second part of the course: reading of literature 40 h, writing an essay and designing a health promotion leaflet 20h.

**Target group:**

Undergraduate health science students.

**Prerequisites and co-requisites:**

None

**Recommended or required reading:**

Materials, publications on the websites of the Ministry of Social Affairs and Health, the National Institute for Health and Welfare, the World Health Organization. Finnish legislation of social and health care, relevant scientific literature.

**Assessment methods and criteria:**

Independent studying. During the first part: reading of literature and on-line exam. During the second part: creating a health promotion leaflet and preparation of a written assignment. In the written assignment the student justifies approach chosen in the leaflet and describes the progress of the work. Continuous assessment based on self-assessment and teacher's assessment is applied.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**

Pass / fail

**Person responsible:**

Doctoral candidate (health management science)

**Other information:**

This course is part of the Basic Studies in Health Sciences, which can be credited based on prior degree in health care completed at the University of Applied Sciences or applicable study modules in health sciences completed at the universities. Students who don't have prior degree in health care from university of applied sciences or applicable study modules in health sciences completed at the universities will complete Basic Studies in accordance with individually prepared electronic Personal Study Plan (e-PSP).

## 351203P: Introduction to Health Sciences, 5 op

**Opiskelumuoto:** Basic Studies

**Laji:** Course

**Vastuuyksikkö:** Health Sciences

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

ay351203P Introduction to Health Sciences (OPEN UNI) 5.0 op

**ECTS Credits:**

5 ECTS cr

**Language of instruction:**

Finnish

**Timing:**

Autumn term

**Learning outcomes:**

The student is able to use the online learning environment, study independently, and evaluate critically one's learning philosophy, style and process in health science studies. The student is able to define concept of science and field of

sciences. The student is able to define and explain the position of health sciences in the field of sciences. The student is capable of identifying current national and international issues of health sciences from perspective of health management science, nursing science and teacher education in health science.

**Contents:**

E-learning environment Optima, personal learning philosophy, style and process in health science studies. Field of sciences and the position of health sciences in it. Current issues of health sciences.

**Mode of delivery:**

Tutored studying in the e-learning environment Optima.

**Learning activities and teaching methods:**

Independent studying, learning to manage the e-learning environment Optima 8h, reading literature and producing a mind map 19h, searching of scientific literature and reading 85h, preparation for and completion of on-line exam 23h.

**Target group:**

Undergraduate students in health science

**Prerequisites and co-requisites:**

None

**Recommended or required reading:**

Literature and other material provided for in E-learning environment Optima, current scientific articles and literature relevant to the topic.

**Assessment methods and criteria:**

Active and independent study is required. Students familiarize with literature, make literature searches, read current national and international scientific articles, produce a mind map of the course content, and complete on-line exam. Continuous assessment including self-evaluation and teacher's evaluation is applied.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**

Pass / fail

**Person responsible:**

Doctoral candidate (health management science)

**Other information:**

This course is part of the Basic Studies in Health Sciences, which can be credited based on prior degree in health care completed at the University of Applied Sciences or applicable study modules in health sciences completed at the universities. Students who don't have prior degree in health care from university of applied sciences or applicable study modules in health sciences completed at the universities will complete Basic Studies in accordance with individually prepared electronic Personal Study Plan (e-PSP).

## 352114A: Bachelor thesis, 6 op

**Opiskelumuoto:** Intermediate Studies

**Laji:** Course

**Vastuuyksikkö:** Health Sciences

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

ay352114A Bachelor Thesis 6.0 op

**ECTS Credits:**

10 ECTS

**Language of instruction:**

Finnish

**Timing:**

Bachelor studies 1st spring term 3rd and 4th period

**Learning outcomes:**

Upon completion of the course the student

is able to produce a Bachelor thesis based on scientific literature and/or empirical data following principles of scientific writing and research and demonstrating one's skills in scientific communication.

knows how to use the most important reference databases and basic principles of information retrieval in health sciences, and has learned to evaluate retrieved results and sources.

knows how to use reference management program

is able to explain and discuss one's Bachelor thesis and to produce a scientific presentation or/and poster on the basis of it. The student can choose a topic for her/his Bachelor thesis which enables practical collaboration with external organization, company (e.g. the thesis can be customized to suit clients needs). However, the topic has to be in line with the research projects of the research unit.

**Contents:**

Planning, implementation, evaluation and presentation of a research process. Writing of a Bachelor thesis based on scientific literature and/or empirical data in accordance with scientific principles. The student prepares the Bachelor thesis with a topic corresponding to her/his major subject. Written maturity test. See 352514A Maturity test.

**Mode of delivery:**

Group tutoring and seminars

**Learning activities and teaching methods:**

Tutoring and seminar in small groups 16h, peer evaluation 4h, reading and retrieving of literature 100h, writing of Bachelor thesis 130h, preparation for and completion of the maturity test 12h. Participation and presentation of the thesis in science day 8h.

**Target group:**

Undergraduate health science students.

**Prerequisites and co-requisites:**

352253A Research Methods in Health Sciences 5 ECTS. Bachelor Thesis includes 040024Y Knowledge and research II, Literature retrieval 4 ECTS

**Recommended or required reading:**

Literature relevant to the Bachelor thesis.

Stolt M, Axelin A & Suhonen R (2015) Kirjallisuuskatsaus hoitotieteessä. Hoitotieteen laitoksen julkaisuja, sarja A:73. Turun yliopisto.

**Assessment methods and criteria:**

Independent studying, tutoring and seminar in small groups, peer-evaluation, writing, presenting and discussing the Bachelor thesis. Written maturity test.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**

Pass / Fail

**Person responsible:**

Doctoral candidate / university lecturer / university teacher

**Working life cooperation:**

Research topic with working life relevance

**Other information:**

In accordance with the Government Decree on University Degrees (794/2004) issued by the Council of State, the student must demonstrate that he/she has attained the objectives set for the degree, studies and thesis, and the language proficiency. The student must write a maturity essay which demonstrates conversance with the topic of the thesis and skills in the use of Finnish or Swedish. See 352514A Maturity test.

**353234A: Health Management Science and Training in Expertise Development, 10 op**

**Opiskelumuoto:** Intermediate Studies

**Laji:** Course

**Vastuuyksikkö:** Health Sciences

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Marjo Suhonen

**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

ay353234A Health Management Science and Training in Expertise Development 10.0 op

**ECTS Credits:**

10 ECTS cr

**Language of instruction:**

Finnish

**Timing:**

Bachelor studies 1st autumn term 1st and 2nd period

**Learning outcomes:**

The student

knows history of health management science and is able to name focal research areas and theoretical basics in a manner enabling discussions about health care administration and management phenomena in connection with visits to companies/organizations.

is able to produce a portfolio with working life relevance, which supports development of expertise and long-life learning. In portfolio, the student applies and analyses central concepts, theories and models of health management science using her/his earlier knowledge and skills.

is able to present portfolio with working life relevance interactively using creatively information and communication technology

is able to report development of one's expertise from the perspective of one's earlier education and working life skills. In addition, the student is able to discuss in one's tutorial group requirements, challenges and possibilities of working life cooperation in the fields of health care, education and management.

**Contents:**

Health management science as a research field and discipline, central concepts and theoretical approaches.

Phenomena of health care administration and management in working life.

**Mode of delivery:**

Blended teaching using information and communication technology.

**Learning activities and teaching methods:**

Lectures 10h, seminars 6h, visits to companies/organizations 37h, portfolio 90h and independent studying 127h.

**Target group:**

Undergraduate health science students.

**Prerequisites and co-requisites:**

None

**Recommended optional programme components:**

Due to joint teaching activities and a joint learning assignment, the student has to complete this course simultaneously with the course 353235A Nursing science and training in expertise development.

**Recommended or required reading:**

Syväjärvi A & Pietiläinen V (toim.) 2016. Inhimillinen ja tehokas sosiaali- ja terveystoiminta. Tampere University press. Link to the e-material [https://tampub.uta.fi/bitstream/handle/10024/100410/Syvajarvi\\_%26\\_Pietilainen\\_OA.pdf?sequence=1](https://tampub.uta.fi/bitstream/handle/10024/100410/Syvajarvi_%26_Pietilainen_OA.pdf?sequence=1)

Vuori J. 2016. Terveystoiminta ja johtaminen, Terveystoimintatiede terveydenhuollon työyhteisössä. Sanoma Pro Oy. Hallinnon tutkimus – journals. Other current scientific literature and research.

**Assessment methods and criteria:**

Producing a portfolio, visits to companies/organizations.

**Grading:**

1 - 5 / fail

**Person responsible:**

Professor

**Working life cooperation:**

Visits to companies/organizations and reflection of one's competence in relation to requirements of working life.

## 352514A: Maturity test, 0 op

**Voimassaolo:** 01.08.2016 -

**Opiskelumuoto:** Intermediate Studies

**Laji:** Course

**Vastuuyksikkö:** Health Sciences

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Heli-Maria Kuivila

**Opintokohteen kielet:** Finnish

**ECTS Credits:**

0 ECTS cr

**Language of instruction:**

Finnish or Swedish; English, if the Bachelor Thesis has been written in English.

**Timing:**

Varies. The student must complete written maturity test in connection with and as a part of 352514A Bachelor Thesis 10 ECTS cr. The student can register for maturity test as soon as she/he has submitted the thesis for review and the supervisor has given her/his permission to register.

**Learning outcomes:**

In accordance with the Government Decree on University Degrees (794/2004) issued by the Council of State, the student must demonstrate that he/she has attained the objectives set for the degree, studies and thesis and the language proficiency. The student must write a maturity essay which demonstrates conversance with the topic of the thesis and skills in the use of Finnish or Swedish.

**Contents:**

Maturity test connected to the field of student's Bachelor thesis.

**Mode of delivery:**

Written maturity test connected to the Bachelor thesis.

**Learning activities and teaching methods:**

The student writes the maturity test in one of the national languages, in which she/he has received her/his school education. If the mother tongue of the student is other than Finnish or Swedish, Faculty of Medicine will determine separately required language studies.

**Target group:**

Bachelor degree students in nursing science, health science teacher education and health management science.

**Prerequisites and co-requisites:**

352114A Bachelor Thesis 10 ECTS cr participation in which requires completion of 352253A Research Methods in Health Sciences 5 ECTS cr. In addition supervisor's permission to register for maturity test.

**Assessment methods and criteria:**

See [general instructions](#) of the maturity test at the University of Oulu (in Finnish).

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**

pass / fail

**Person responsible:**

Supervisor of the Bachelor thesis and teacher of the university's Languages and Communications of the Oulu Extension School.

### 353235A: Nursing Science and Training in Expertise Development, 10 op

**Opiskelumuoto:** Intermediate Studies

**Laji:** Course

**Vastuuyksikkö:** Health Sciences

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Pirjo Kaakinen

**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

ay353235A Nursing Science and Training in Expertise Development 10.0 op

**ECTS Credits:**

10 ECTS cr

**Language of instruction:**

Finnish

**Timing:**

Bachelor studies 1st autumn semester 1st and 2nd period

**Learning outcomes:**

The student is able to

describe development, research approaches, focuses and research subjects in nursing science. The student is able to apply evidence-based practice and discuss the importance of nursing science in connection with visits to companies/organizations.

produce a portfolio with working life relevance, which supports development of expertise and long-life learning. In portfolio, the student applies and analyses central concepts, theories and models of nursing science using her/his earlier knowledge and skills.

introduce interactively portfolio with working life relevance using creatively information and communication technology report development of one's expertise from the perspective of one's earlier education and working life skills. In addition, the student is able to discuss in groups requirements, challenges and possibilities of working life cooperation from the nursing science's point of view.

**Contents:**

Development trends, focuses and research subjects in nursing science. The importance of nursing science in development of expertise and evidence-based practice of health care.

**Mode of delivery:**

Blended teaching using information and communication technology.

**Learning activities and teaching methods:**

Lectures 10h, seminars 6h, visits to companies/organizations 37h, portfolio 90h and independent studying 127h.

**Target group:**

Bachelor students of degree programme in health sciences

**Prerequisites and co-requisites:**

None

**Recommended optional programme components:**

Due to joint teaching activities and a joint learning assignment, the student has to complete this course simultaneously with the course 353234A Health management science and training in expertise development.

**Recommended or required reading:**

Eriksson, K., Isola, A., Kyngäs, H., Leino-Kilpi, H., Lindström, U. Å., Paavilainen, E., Pietilä, A-M., Salanterä, S., Vehviläinen-Julkunen, K. & Åstedt-Kurki, P. 2012. *Hoitotiede*. 4. uudistettu painos. Sanoma Pro Oy. Helsinki.  
 Holopainen, A, Junttila K, Jylhä, V, Korhonen, A, Seppänen S. 2013. *Johda näyttö käyttöön hoitotyössä*. Bookwell Oy, Porvoo (certain parts).

Nursing Science –journal. Other current national and international scientific literature.

**Assessment methods and criteria:**

Producing a portfolio and visits to companies/organizations.

**Grading:**

1 - 5 / fail

**Person responsible:**

Professor

**Working life cooperation:**

Visits to companies/organizations and reflection of one's competence in relation to requirements of working life.

### 352253A: Research Methods in Health Science, 5 op

**Voimassaolo:** 01.01.2017 -

**Opiskelumuoto:** Intermediate Studies

**Laji:** Course

**Vastuuyksikkö:** Health Sciences

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

ay352253A    Research Methods in Health Science    5.0 op

**ECTS Credits:**

5 ECTS cr

**Language of instruction:**

Finnish

**Timing:**

Bachelor studies 1<sup>st</sup> spring term 2<sup>nd</sup> period

**Learning outcomes:**

Upon completion of the course student is able to

- choose with critical evaluation and in inter-disciplinary collaboration in small groups as team work research methods relevant for the subject of research;
- describe the requirements for good scientific writing;
- use problem solving skills and be creative and flexible in evaluating and applying basic ethical issues related to research and researchers;
- evaluate and define reliability of qualitative and quantitative studies;
- report a research plan with working life relevance using information and communication technology and applying knowledge gained in earlier research method studies.

**Contents:**

Qualitative and quantitative research: methods of collecting and analyzing data, assessment of reliability, ethical principles, writing of a research plan and a research report.

**Mode of delivery:**

Blended teaching in pilot cooperation with university of applied sciences.

**Learning activities and teaching methods:**

Lectures and exercises 25h, seminars 8h, independent and group work 102h.

**Target group:**

Undergraduate health science students.

**Prerequisites and co-requisites:**

None

**Recommended or required reading:**

Polit DF & Beck CT. 2011. *Nursing Research. Generating and assessing evidence for nursing practice*. Lippincott Williams & Wilkins, Philadelphia (parts of the publication).

Denzin, Norman K. & Lincoln, Yvonna S. (eds.) 2011. *The Sage Handbook of Qualitative Research*. 4th ed. Thousand Oaks, CA: SAGE. (Parts of the publication including at least part III Strategies of Inquiry ja IV Methods of Collecting and Analyzing Empirical Materials).

Current national and international scientific articles.

**Assessment methods and criteria:**

Active participation in contact teaching and group work.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**

1-5/fail, self- and peer evaluation.

**Person responsible:**

University lecturers in nursing and health management sciences

**Working life cooperation:**

Research topic with working life relevance.

## 352226S: Clinical training, 10 op

**Voimassaolo:** 01.08.2016 -

**Opiskelumuoto:** Advanced Studies

**Laji:** Practical training

**Vastuuyksikkö:** Health Sciences

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**ECTS Credits:**

10 ECTS cr

**Language of instruction:**

Finnish

**Timing:**

According to individual plan. Recommended period of time is in spring/summer term after the first year of Master's studies

**Learning outcomes:**

Upon completion of the course, the student has acquired research based expertise in clinical nursing and nursing science, emphasizing student's ability to plan and evaluate development of operations of social welfare and health care units and draw conclusions from it. The student is able to work in multi-professional expert groups. The student is able to prepare a portfolio for recognizing and describing one's expertise.

**Contents:**

Practical training is implemented in a social welfare and health care organization in accordance with an individual plan. Portfolio as a tool of expertise.

**Mode of delivery:**

Independent training in chosen organization.

**Learning activities and teaching methods:**

Part 1: Drawing up an individual training plan in collaboration with the organization where the training will take place.

Part 2: Training and evaluation.

Part 3: Drawing up an academic portfolio.

Part 4: Participation in web discussions (Optima) and in workshops.

**Target group:**

Students of the degree programme in nursing science.

**Prerequisites and co-requisites:**

The student must have completed with pass the following course: 353101S Nursing science II.

**Recommended or required reading:**

Current national and international scientific literature. Valid legislation and strategic documents related to social welfare and health care.

**Assessment methods and criteria:**

Preparing a plan for practical training and a final training report. Active participation in discussion in Optima portal.

Practical training and participation in research clubs and workshops arranged by working life contacts. Writing a portfolio with description of competence.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**

Pass / fail

**Person responsible:**

University lecturer and doctoral student

**Working life cooperation:**

Yes, practical training, and participation in research clubs and workshops arranged by working life contacts.

## 351180S: Fundamentals of clinical care and nursing science, 5 op

**Opiskelumuoto:** Advanced Studies

**Laji:** Course

**Vastuuyksikkö:** Health Sciences

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**ECTS Credits:**

5 ECTS cr

**Language of instruction:**

Finnish

**Timing:**

Master degree studies, 1<sup>st</sup> autumn term, 2<sup>nd</sup> period

**Learning outcomes:**

The student is able to analyze and combine his/her earlier research and developments skills in development of personal expertise. After completion of the study unit, the student is able to discuss and evaluate the fundamentals of clinical care, nursing science and expert roles and to follow and interpret future needs of the working life in national and international level. The student is able to plan and evaluate in the portfolio his/her knowledge and skills in the future role of an expert. The student as an expert is able to work in changing work life situations and use creative problem-solving skills and innovativeness. The student deepens his/her expertise by organizing independently a visit to an expert organization and reports the visit using information and communication technology.

**Contents:**

Fundamentals and special characteristics of clinical care and nursing science. Relevance, roles and tasks of an expert in clinical nursing science in organizations within social and health care. Models of expertise. Reworking the portfolio as a part of the development of the expertise.

**Mode of delivery:**

Blended teaching using information and communication technology.

**Learning activities and teaching methods:**

Contact teaching 6h, seminar 4h, familiarizing independently with expert role and operations of one health care organization 10h, reworking the portfolio 20h, independent and collective work 95h.

**Target group:**

Master Degree students of the degree programme in nursing science

**Prerequisites and co-requisites:**

The student must have completed with pass major subject and research method studies included in the Bachelor degree.

**Recommended optional programme components:**

Reworking portfolio prepared during study unit 353235A Nursing Science and Training in Expertise Development 10 ECTS

**Recommended or required reading:**

Krista Jokiniemi. 2014. Clinical Nurse Specialist Role in Finnish Health Care. Publications of the University of Eastern Finland. Dissertations in Health Sciences. Current national and international scientific literature and articles.

**Assessment methods and criteria:**

Active participation in contact teaching, visit to organization, portfolio and participation in seminar, group assignment. Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**

1-5 / fail

**Person responsible:**

University lecturer and doctoral student

**Working life cooperation:**

Student plans, implements and reports visit to an expert organization.

## 352227S: Leadership in Evidence Based Practice, 5 op

**Opiskelumuoto:** Advanced Studies

**Laji:** Course

**Vastuuyksikkö:** Health Sciences

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**ECTS Credits:**

5 ECST cr

**Language of instruction:**

Finnish

**Timing:**Master degree studies, 1<sup>st</sup> autumn term, 2<sup>nd</sup> period**Learning outcomes:**

The student is able to work as a care leader in planning, implementation and evaluation of evidence-based practice acknowledging the changes in operational environment of social welfare and health care organizations. The student is able to practice analytical thinking and problem-solving skills when managing and solving challenges of evidence-based practice in the work community.

**Contents:**

Evidence-based practices and the role of a nursing leader in evidence-based practice. Dissemination and use of evidence-based practice. Evaluation of impact of evidence-based practice.

**Mode of delivery:**

Study of literature, exam.

**Learning activities and teaching methods:**

Independent studying of up-to-date national and international literature and scientific articles 131h, completion of exam 4h.

**Target group:**

Master students of the degree programme in nursing science.

**Prerequisites and co-requisites:**

The student must have completed with pass major subject and research method studies included in the Bachelor degree. Completion of 351180S Fundamentals of clinical care and nursing science.

**Recommended optional programme components:**

None

**Recommended or required reading:**

Holopainen A. ym. 2013. Johda näyttö käyttöön hoitotyössä. Fioca Oy, Bookwell Oy.  
Current national and international scientific literature and articles.

**Assessment methods and criteria:**

Exam. Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**

1-5 / fail

**Person responsible:**

University lecturer and doctoral student

**Working life cooperation:**

The student is able to combine working life relevance and theoretical knowledge in leadership of evidence-based practice.

**353226S: Master Thesis and Research Seminars Part I, 15 op****Opiskelumuoto:** Advanced Studies**Laji:** Course**Vastuuyksikkö:** Health Sciences**Arvostelu:** 1 - 5, pass, fail**Opintokohteen kielet:** Finnish**ECTS Credits:**

15 ECTS cr

**Language of instruction:**

Finnish

**Timing:**Master degree studies, 1<sup>st</sup> spring term, 4<sup>th</sup> period; 2<sup>nd</sup> autumn term, 1<sup>st</sup> and 2<sup>nd</sup> period**Learning outcomes:**

Upon completion of the course the student is able to justify critically one's research topic with working life orientation, and plan and complete independently acceptable research plan. Student is able to evaluate and apply methodological choices in the different stages of the research plan. The student is able to analyze and give feedback to peer-student's research plan using information and communications technology. Student is able to produce Master thesis.

**Contents:**

Idea paper, agreement of supervision, drafting a research plan. Scientific group discussions and peer-evaluation of research plan.

**Mode of delivery:**

Tutored group work, using information and communications technology.

**Learning activities and teaching methods:**

Group tutoring 15h, public defenses of doctoral theses 3h+3h, group work with peer-students in the e-learning environment 8h, and independent studying 375h.

**Target group:**

Master Degree students in nursing science and in health sciences teacher education.

**Prerequisites and co-requisites:**

Completion with pass of the research method studies included in the Bachelor degree and Bachelor Thesis.

**Recommended optional programme components:**

None.

**Recommended or required reading:**

Polit DF & Beck CT (2011) Nursing research: generating and assessing evidence for nursing practice. 9. ed. Wolters Kluwer Health/Lippincott Williams & Wilkins, Philadelphia.

National and international scientific literature relevant to the topic and methods of the Master thesis.

**Assessment methods and criteria:**

Preparing of an idea paper and agreement of supervision. Participation in public defenses of doctoral theses and reporting in e-learning environment. Participation in tutored group work in e-learning environment. Peer-evaluation of research plan. Accepted research plan.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**

Pass / fail, self- and peer-evaluation

**Person responsible:**

University lecturer

**Working life cooperation:**

Student is able to choose research topic with working life relevance, which supports his/her own expertise.

## 353227S: Master Thesis and Research Seminars part II, 25 op

**Opiskelumuoto:** Advanced Studies

**Laji:** Diploma thesis

**Vastuuyksikkö:** Health Sciences

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**ECTS Credits:**

25 ECTS cr

**Language of instruction:**

Finnish

**Timing:**

Master degree studies, 2nd autumn term, 1<sup>st</sup> and 2<sup>nd</sup> period; 2<sup>nd</sup> spring term, 3<sup>th</sup> and 4<sup>th</sup> period.

**Learning outcomes:**

The student as a specialist is able to create a thesis or a scientific article independently or as a member of a research project group by analyzing and applying the information and skills of research methods gained during one's study. Student is able to create thesis based on working life relevance and his/her own expertise in schedule agreed with the supervisor. The student masters the chosen research methods, and is able to evaluate and conclude critically, and to justify decisions made within one's own thesis. The student has knowledge and skills enabling participation in scientific discussion and postgraduate education.

**Contents:**

Familiarizing with international scientific literature related to the subject and research methods of the Master thesis. Producing a Master thesis or article in accordance with set scientific criteria. Critical discussion on thesis, presentation of results and conclusions.

**Mode of delivery:**

Individual / group tutoring using information and communication technology.

**Learning activities and teaching methods:**

Individual or group tutoring 25h, reading of national and international literature related to research topic and methods 300h, writing of a thesis or scientific article 350h.

**Target group:**

Master Degree students in nursing science and in health sciences teacher education.

**Prerequisites and co-requisites:**

In order to participate in this course the student must have passed the following studies: research method studies included in Bachelor degree, Bachelor Thesis, and Master Thesis and Research Seminars part I.

**Recommended optional programme components:**

Student must have accepted research plan and agreement of supervision prepared during the course 353226S Master Thesis and Research Seminars part I. Written maturity test 353205S.

**Recommended or required reading:**

Polit DF & Beck CT (2011) Nursing research: generating and assessing evidence for nursing practice. 9. ed. Wolters Kluwer Health/Lippincott Williams & Wilkins, Philadelphia, and national and international scientific literature relevant to topic and methods of the thesis.

**Assessment methods and criteria:**

Production of a thesis or a scientific article. Written maturity test (for more information see 353205S).

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**

1-5 / fail

**Person responsible:**

University lecturer

**Working life cooperation:**

Student is able to produce thesis with working life relevance, which support his/her own expertise.

**353225S: Mater Thesis and Research Seminars, 40 op**

**Opiskelumuoto:** Advanced Studies

**Laji:** Course

**Vastuuyksikkö:** Health Sciences

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**ECTS Credits:**

40 ECTS cr including the following courses:

353226S Master Thesis and Reseearch Seminars Part I (15 ECTS cr)

353227S Master Thesis and Research Seminars Part II (25 ECTS cr)

353205S Written maturity test (0 ECTS cr)

See individual courses for detailed descriptions.

**352252S: Methods of Statistical Analysis in Health Sciences, 5 op**

**Opiskelumuoto:** Advanced Studies

**Laji:** Course

**Vastuuyksikkö:** Health Sciences

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**Required proficiency level:**

In order to participate, student must have completed all the courses included in A500105 Knowledge Management and Research totaling 10 ECTS cr.

**ECTS Credits:**

5 ECTS cr

**Language of instruction:**

Finnish

**Timing:**

Master degree studies, 1<sup>st</sup> autumn term 1<sup>st</sup> period

**Learning outcomes:**

Upon completion of the course the students are able to plan collection of data, to transfer the data into a form which can be processed with a computer and to use independently statistical software for processing and analysis of data. The students are able to apply basic statistical methods in analysis of research problems. The students know multivariate and other special statistical methods used for analysis of data in health sciences. Additionally, the students are able to report research results and to recognize the issues which are important in interpreting the results published in international publications of health sciences.

**Contents:**

Basic concepts of statistics. Design of studies. Data collection. Data preparation. Using statistical software. Choosing the methods of analysis. Comparing groups. Repeated measurements. Studying associations. Multivariable methods. Regression models. Reliability. Reporting the results. Article evaluation.

**Mode of delivery:**

Contact teaching and group exercises.

**Learning activities and teaching methods:**

Lectures 28h, group exercises 21h and learning assignments.

**Target group:**

From 2017 Curriculum onward Master students of health sciences.

**Recommended or required reading:**

Lecture presentations and supplementary group work materials. Uhari M ja Nieminen P: Epidemiologia ja biostatistiikka. ("Epidemiology and biostatistics"; no translation in English.) 2nd edition Duodecim, 2012.

**Assessment methods and criteria:**

Final examination, accepted learning assignments and participation in group exercises

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**

Pass / fail

**Person responsible:**

University lecturer Pentti Nieminen

### **353101S: Nursing Science II: Scientific knowledge within nursing science as a basis for developing social and health care, 5 op**

**Voimassaolo:** 01.08.2013 -

**Opiskelumuoto:** Advanced Studies

**Laji:** Course

**Vastuuyksikkö:** Health Sciences

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**ECTS Credits:**

5 ECTS cr

**Language of instruction:**

Finnish

**Timing:**

Master degree studies, 1st autumn term, 1st period

**Learning outcomes:**

Having completed the study unit the student is able: 1. to discuss relevant questions of research and project development in nursing science, 2. to find and use up-to-date and reliable information of nursing science, 3. to evaluate the quality of information within nursing science, 4. to apply theories and research results of nursing science for solving problems in professional settings based on evidence based practice and expertise in nursing science.

**Contents:**

Current issues of nursing science. Types of nursing sciences and evaluation of information. Theories of nursing sciences as a foundation for evidence based practice. Evidence based knowledge. Evidence based practice in social and health care.

**Mode of delivery:**

Contact teaching

**Learning activities and teaching methods:**

Activating teaching 20h, work in small groups 45h and independent learning assignment 65h and updating of expert portfolio 5h.

**Target group:**

Master Degree students in nursing science and in health sciences teacher education.

**Prerequisites and co-requisites:**

Completion of the following courses prior to enrolling for this course: Bachelor Thesis and Nursing Science I.

**Recommended or required reading:**

1. Lauri S ja Kyngäs H. 2006. Hoitotieteen teorian kehittäminen. Sanoma Pro Oy.
2. Holopainen A, Junttila K, Jylhä V, Korhonen A, Seppänen S. 2013. Johda näyttö käytäntöön hoitotyössä. Suomen sairaanhoitajaliitto ry, Fioca Oy, Helsinki.
3. Current international scientific articles.

**Assessment methods and criteria:**

Active participation in contact teaching, evidence-based group work using digital media, and independent learning assignment with self-evaluation.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**

1-5 / fail

**Person responsible:**

Professors

**Working life cooperation:**

Learning assignment with working life relevance.

### **353215S: Nursing science III: Leadership and innovation in evidence based practice, 7 op**

**Opiskelumuoto:** Advanced Studies

**Laji:** Course

**Vastuuyksikkö:** Health Sciences

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**ECTS Credits:**

7 ECTS cr

**Language of instruction:**

Finnish

**Timing:**

Master degree studies, 1<sup>st</sup> spring term, 3<sup>rd</sup> period

**Learning outcomes:**

The student is able to analyze and evaluate critically knowledge and research in nursing science, and to apply it to the field of social and health care. Student is able to solve demanding problems independently and collaboratively in health care research and innovation according to evidence based practice. Student is able to manage issues and draw conclusions on operations in the field of health care. Student is able to evaluate actions of other persons and groups.

**Contents:**

Extensive and diverse knowledge and research in nursing science. Applying of nursing science.

**Mode of delivery:**

Blended teaching

**Learning activities and teaching methods:**

Tutored exercises 20h, small group work, retrieval, production and evaluation of data 145h, oral group examination, peer-evaluation and feedback in groups.

**Target group:**

Master Degree students in nursing science and in health sciences teacher education

**Prerequisites and co-requisites:**

Nursing Science II, The Application of Research Methods in Health Sciences

**Recommended optional programme components:**

Major in nursing science, subject and advanced studies

**Recommended or required reading:**

Current international and national scientific articles.

**Assessment methods and criteria:**

Lectures/tutored exercises, active participation in group work and tutored exercises, oral group examination. The students will complete collectively an assignment and an oral group examination, which will be assessed using self-evaluation, peer evaluation and teacher's evaluation.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**

1-5 /fail

**Person responsible:**

Professor

**Working life cooperation:**

Assignment with working life relevance.

### **353203S: The Application of Research Methods in Health Sciences, 10 op**

**Opiskelumuoto:** Advanced Studies

**Laji:** Course

**Vastuuyksikkö:** Health Sciences

**Arvostelu:** 1 - 5, pass, fail

**Opettajat:** Satu Elo

**Opintokohteen oppimateriaali:**

**Polit, Denise F.** , , 2004, pakollinen

**Paunonen, M. & Vehviläinen-Julkunen, K.** , , 1997, pakollinen

**Morse, Janice M.** , , 1995, pakollinen

**Janhonen, S & Nikkonen, M** , , 2003, pakollinen

**Karma, Kai** , , 1990, pakollinen

**Perttula J. & Latomaa T.** , , 2005, pakollinen

**Opintokohteen kielet:** Finnish

**ECTS Credits:**

10 ECTS cr

**Language of instruction:**

Finnish

**Timing:**

Master degree studies, 1<sup>st</sup> autumn term, 1<sup>st</sup> and 2<sup>nd</sup> period

**Learning outcomes:**

Upon completion of the course the student is able to apply in learning assignment one's previous knowledge of research methods.

The student is able to discriminate between and interpret characteristics of quantitative and qualitative research and draw conclusions on main methodological issues.

The student is able to plan and lead activities of one's tutorial group for reaching a joint goal.

The student is able to plan, create and evaluate different approaches of qualitative and quantitative research in research plan and in preparation of digital learning assignments.

The student is able to organize different stages of a research process and form a logical whole of them.

The student is able to analyze reliability and ethical questions of quantitative and qualitative research and evaluate them in one's research plan and learning assignment.

The student is able to use work related digital skills in preparation of the research plan and learning assignments.

The student has gained skills and knowledge necessary for completion of research seminars and Master thesis.

**Contents:**

Methodological characteristics of quantitative and qualitative research, types of/approaches in research, phases of research process, assessment of reliability, ethical issues in research. Collective implementation of learning assignments and research plan using digital learning-solutions.

**Mode of delivery:**

Collective learning, learning diary (blog), peer and group evaluation.

**Learning activities and teaching methods:**

Lectures and tutored exercises 50h, independent and collective studying 220h. Writing of a research plan and learning assignments in groups based on topics with working life relevance and using digital skills.

**Target group:**

Master Degree students in nursing science, health sciences teacher education and in health management science.

**Prerequisites and co-requisites:**

The student must have completed with pass research method studies included in the Bachelor degrees and Bachelor thesis.

**Recommended optional programme components:**

This course is an independent entity and doesn't require completion of other simultaneous studies.

**Recommended or required reading:**

Polit DF & Beck CT (2011) Nursing research: generating and assessing evidence for nursing practice. 9. ed. Wolters Kluwer Health/Lippincott Williams & Wilkins, Philadelphia.

Denzin, Norman K. & Lincoln, Yvonna S. (eds.) 2011. The sage Handbook of Qualitative Research. 4th ed. Thousand Oaks, CA: SAGE. (Certain parts, at least parts III /Strategies of Inquiry/ and part IV /Methods of Collecting and Analyzing Empirical Materials/) and

National and international literature and scientific articles relevant to research plan and learning assignments.

**Assessment methods and criteria:**

Active participation in lectures, collective group work and preparation of learning assignments and research plan.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**

1-5 / fail, group- and peer-evaluation

**Person responsible:**

University lecturers of nursing science and health management science

**Working life cooperation:**

During the course the students use and apply digital learning solutions relevant for working life cooperation.

**353205S: Written maturity test, 0 op**

**Opiskelumuoto:** Advanced Studies

**Laji:** Course

**Vastuuyksikkö:** Health Sciences

**Arvostelu:** 1 - 5, pass, fail

**Opintokohteen kielet:** Finnish

**ECTS Credits:**

0 ECTS cr

**Language of instruction:**

Finnish or Swedish; English, if the Master Thesis has been written in English.

**Timing:**

Varies. The student must complete written maturity test in connection with and as a part of Master Thesis. The student can register for maturity test as soon as she/he has submitted the thesis for review and the supervisor has given her/his permission to register.

**Learning outcomes:**

The student is able to communicate in Finnish or in Swedish and show thorough knowledge of the field of his / her thesis. If the student has taken the maturity test in connection with the Bachelor degree and showed good command in Finnish or Swedish language in it, she/he doesn't have to show it anymore in connection with the Master degree. However, the student must still take the maturity test and show in it thorough knowledge of the field of her/his thesis.

**Contents:**

Maturity test connected to the field of student's master thesis.

**Mode of delivery:**

Written maturity test connected to the master thesis.

**Learning activities and teaching methods:**

The student writes the maturity test usually in one of the national languages of Finland (Finnish or Swedish), in which she/he has received her/his school education. If the mother tongue of the student is other than Finnish or Swedish, the Faculty of Medicine will determine separately required language studies.

**Target group:**

Master degree students in nursing science, health sciences teacher education and health management science.

**Prerequisites and co-requisites:**

Master thesis and supervisor's permission to register for maturity test

353225S Master Thesis and Research Seminars 40 ECTS cr (353226S part I ja 353227S part II) for Master's programmes in Nursing Science and in Health Sciences Teacher Education

353206S Master Thesis 30 ECTS cr (353236S part I ja 353237S part II) for Master's Programme in Health Management Science

**Assessment methods and criteria:**

See [general instructions](#) of the maturity test at the University of Oulu (in Finnish).

An abstract of the Master thesis in Finnish or Swedish can be accepted as a maturity test if the student has showed good command in one of these languages in written maturity test of the Bachelor thesis.

Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**

Pass / Fail

**Person responsible:**

Supervisor of the Master thesis and teacher of the university's Languages and Communications of the Oulu Extension School.