

# Opasraportti

## FMed - Bachelor of Health Science (2018 - 2019)

### DEGREE PROGRAMME IN HEALTH SCIENCES (BHSc) 2018-2019

#### Multidisciplinary Bachelor's Degree Programme in Health Sciences

The Bachelor's degree (BHSc) in Health Sciences at the University of Oulu is based on the Government Decree on University Degrees [794/2004](#). The degree programme leads to the degree of Bachelor of Health Sciences (180 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 right 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. The study rights 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 the Master's Programmes of 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 a motivation letter. After the admission process, the student is given study right 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. When students have received study rights for *Health Management Science* during the admission process, students are guaranteed to continue their studies in the Master's Programme in Health Management Science.

In the beginning of the studies, for all students will be named a student tutor and a personal tutor teacher, who are responsible for student guidance and supervision. All students prepare a 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 3.9.2018 to 10.5.2018. 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.

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 faculty study affairs 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:

- The student is able to explain the primary areas of research in nursing science and health management science in evidence-based practice of healthcare
- The student is able to explain the fundamentals of theory development in health sciences
- The student is able to observe and interpret national and international development of healthcare and health sciences
- The 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 her/his 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 2018-2019](#)

At the University of Oulu the Bachelor's Degree consists of the 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 features 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
- 040021Y Knowledge and Research I, Tools 1 ECTS cr
- 040022Y Knowledge and Research I, Written assignment 1,5 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 cr***

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 operational principles of Finnish health care and Finnish health care education. The student is able to define research interests 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
- A551110 Bachelor Thesis Studies 10 ECTS cr:
- 352114A Bachelor Thesis 6 ECTS cr
- 040024Y Knowledge and Research II, Literature retrieval 4 ECTS cr
- 352514A Maturity Test 0 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 cr**

The minor subject studies for the Bachelor Degree in Health Sciences must include at least one study module with no 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 who wish to apply for the Health Sciences Teacher Education Programme, 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.

The 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 Wellbeing and Functional Ability Supporting Environment 7 ECTS cr

### **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.

### **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>

#### **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), with the exception of the language studies (Swedish, English).

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.

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.

Applications for recognition of prior learning can be submitted through [OSAT system](#). The decision will be made by the Director of the programme in question. The decisions on credit transfer for language studies (Swedish, English) are made by 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 tutor teacher evaluates the 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 2018.

### **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 course can be credited based on prior higher education degree.

**901040Y Second Official Language (Swedish), Written Skills 1 ECTS cr and 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. Application for Recognition of Prior Learning (RPL) is submitted through OSAT system and the decision on the result is made by the Extension School Language and Communication Education.

**902008Y Academic English 3 ECTS cr:** The course 3 ECTS cr can be credited based on prior higher education degree. Application for Recognition of Prior Learning (RPL) is submitted through OSAT system and the decision on the result is made by the Extension School Language and Communication Education.

**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 and 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).

**SUBJECT STUDIES:**

**352514A Maturity Test 0 ECTS cr:** Demonstration of language skills, included as a part of Maturity Test, can be credited based on prior higher education degree.

**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 the study module of Health promotion 25 ECTS cr, including 352261A Health Promotion 10 ECTS cr, 353113S The effective patient education in nursing and nursing science 8 ECTS cr, and 352262A Wellbeing and Functional Ability Supporting Environment 7 ECTS cr.

**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 cr

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

352253A Research Methods in Health Sciences 5 ECTS cr

***Minor studies 3,5 ECTS cr***

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***

A551110 Bachelor Thesis Studies 10 ECTS cr:

352114A Bachelor Thesis 6 ECTS cr

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

352514A Maturity Test 0 ECTS cr

### ***Minor studies 21,5 ECTS***

## **Tutkintorakenteet**

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

Tutkintorakenteen tila: published

Lukuvuosi: 2018-19

Lukuvuoden alkamispäivämäärä: 01.08.2018

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

Including: Language and communication skills 15 ECTS cr.

See crediting principles in Course catalogue 2018-19 and in individual course descriptions.

902008Y: Academic English, 3 op

900008Y: Basics of Oral Communication, 3 op

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

### **Basic Studies in Health Sciences (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 2018-19 and in individual course descriptions.

A551101: Preliminary Studies of Health Sciences, 25 op

#### ***Basic Studies in Health Sciences***

351203P: Introduction to Health Sciences, 5 op

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

351205P: Foundations of Health Care Education, 5 op

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

351207P: Foundations of Health Care Legislation, 5 op

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

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

A551102: Subject Studies of Health Sciences, 35 - 65 op

### *Subject Studies in Health Sciences*

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

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

352253A: Research Methods in Health Science, 5 op

A551110: Bachelor thesis studies, 10 op

### *Compulsory*

352114A: Bachelor thesis, 6 op

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

352514A: Maturity test, 0 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, the 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. For 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). These studies must be completed during Bachelor studies, if not completed earlier.

See crediting principles in the text part of the Course catalogue 2018-19.

### 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 Wellbeing and Functional Ability Supporting Environment 7 ECTS cr

## 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 2018-19.

## Opintojaksojen kuvaukset

### Tutkintorakenteisiin kuuluvien opintokohteiden kuvaukset

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, next time in spring 2019)

**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:**

-

## 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:**

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 3 h. Contact teaching 20 h including small group counselling, info-meetings. Participation in and planning of events of research unit 20 h including learning development day and alumni meetings. Independent studying 11 h.

**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, nursing science and health management science

**Working life cooperation:**

Alumni meeting

**Other information:**

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

## 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

2nd 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

**A551101: Preliminary Studies of Health Sciences, 25 op****Opiskelumuoto:** Basic Studies**Laji:** Study module**Vastuuyksikkö:** Health Sciences**Arvostelu:** 1 - 5, pass, fail**Opintokohteen kielet:** Finnish**Leikkaavuudet:**

ayA551101 Preliminary Studies of Health Sciences (OPEN UNI) 25.0 op

Ei opintojaksokuvauksia.

*Basic Studies in Health Sciences***351203P: Introduction to Health Sciences, 5 op****Opiskelumuoto:** Basic Studies**Laji:** Course**Vastuuyksikkö:** Health Sciences**Arvostelu:** 1 - 5, pass, fail**Opettajat:** Moona Huhtakangas**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 and study independently. 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. 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 8 h, reading literature, and current national and international scientific articles 62 h, evaluation of information and preparation of written assignments 60 h, and peer evaluation of a written assignment 5 h.

**Target group:**

Undergraduate students in health science

**Prerequisites and co-requisites:**

None

**Recommended optional programme components:**

-

**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:**

Independent studying, reading of literature, and current national and international scientific articles, evaluation of information and completion of written assignments. 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).

**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 services.
- identify and define the norms and ethical principles, which are related to status of the client and are guiding the operations in health care
- recognize the most central ethical problems in health care, compare the ethical norms and regulations revealed in health care and patient care and related to different professional and work cultures.
- define Evidence Based Practice
- identify different stages of a research process
- define special characteristics of qualitative and quantitative research.
- recognize the main ethical principles of research in health sciences
- 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. Special characteristics of qualitative and quantitative research. Stages of a research process. Basics of scientific writing and referencing.

**Mode of delivery:**

Supervised studying in e-learning environment Optima

**Learning activities and teaching methods:**

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

**Target group:**

Undergraduate students in health science

**Prerequisites and co-requisites:**

None required

**Recommended optional programme components:**

-

**Recommended or required reading:**

Materials and reports from webpages of the National Advisory Board on Social Welfare and Health Care "ETENE", relevant national and international scientific literature.

**Assessment methods and criteria:**

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

University teacher (nursing science)

**Working life cooperation:**

The student evaluates health care services and identifies ethical principles in order to guide the operation in health care. The student critically recognizes and compares ethical norms and regulations revealed in health care and patient care and related to different professional and work cultures.

**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).

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

**Opiskelumuoto:** Basic Studies

**Laji:** Course

**Vastuuyksikkö:** Health Sciences

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

**Opettajat:** Jonna Juntunen

**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 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 define main goals and strategies, to identify 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 60 h, peer evaluation of learning diaries and collaboration with other students 17 h, evaluation of retrieved information and preparation of written assignments 58 h.

**Target group:**

Undergraduate health science students

**Prerequisites and co-requisites:**

None

**Recommended optional programme components:**

-

**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 (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

**Opettajat:** Moona Huhtakangas

**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 learning assignments. 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 40 h and preparation of written assignments 30 h. During the second part of the course: reading of literature 35 h, writing an essay and designing a health promotion leaflet 30 h.

**Target group:**

Undergraduate health science students

**Prerequisites and co-requisites:**

None

**Recommended optional programme components:**

-

**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 written assignments. 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).

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

**Opiskelumuoto:** Basic Studies

**Laji:** Course

**Vastuuyksikkö:** Health Sciences

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

**Opettajat:** Moona Huhtakangas

**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 77 h, evaluation of received information and completion of written assignments 58 h.

**Target group:**

Undergraduate health science students

**Prerequisites and co-requisites:**

None

**Recommended optional programme components:**

-

**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 written assignments. The course is assessed based on the written assignments. 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).

**A551102: Subject Studies of Health Sciences, 35 - 65 op**

**Opiskelumuoto:** Intermediate Studies

**Laji:** Study module

**Vastuuyksikkö:** Health Sciences

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

**Opettajat:** Pirjo Kaakinen

**Opintokohteen kielet:** Finnish

**Leikkaavuudet:**

ayA551102 Subject Studies in Health Sciences (OPEN UNI) 35.0 op

Ei opintojaksokuvauksia.

*Subject Studies in Health Sciences*

**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 1<sup>st</sup> autumn term 1<sup>st</sup> and 2<sup>nd</sup> 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 10 h, seminars 6 h, visits to companies/organizations 37 h, portfolio 90 h and independent studying 127 h.

**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 terveysjohtaminen. Tampere University press. Linkki e-materiaaliin:

[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)

Hallinnon tutkimus journals. Other current scientific literature and research.

**Assessment methods and criteria:**

Producing a portfolio, visits to companies/organizations. Read more about [assessment criteria](#) at the University of Oulu webpage.

**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.

**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 1<sup>st</sup> autumn term 1<sup>st</sup> and 2<sup>nd</sup> 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 10 h, seminars 6 h, visits to companies/organizations 37 h, portfolio 90 h and independent studying 127 h.

**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 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, visits to companies/organizations. Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**

1-5 / fail

**Person responsible:**

University lecturer

**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> autumn term 2<sup>nd</sup> period**Learning outcomes:**

The student is able to name and describe the characteristics of scientific research. The student is able to recognize and evaluate the requirements for good scientific writing. The student is able to describe the steps of scientific research process. The student is able to formulate research aims, objectives and research questions. The student is able to describe valid methods for data collection and data analysis and for selection of research sample/informants. The student is able to describe and evaluate basic ethical issues related to research and researchers. The student is able to evaluate reliability and validity of qualitative and quantitative studies, and is able to apply information and communication technology in his/her research methodology 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, scientific writing.

**Mode of delivery:**

Guided online-studies, Google classroom

**Learning activities and teaching methods:**

Independent familiarization of online materials 80 h, literature retrieval and reading 30 h, exercises/examination 25 h.

**Target group:**

Undergraduate health science students

**Prerequisites and co-requisites:**

None

**Recommended optional programme components:**

-

**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 and independent participation in online studies and online exercises/examination. Read more about [assessment criteria](#) at the University of Oulu webpage.

**Grading:**

1-5 / fail

**Person responsible:**

University teachers in nursing and health management sciences

**Working life cooperation:**

Assignments with working life relevance

**A551110: Bachelor thesis studies, 10 op**

**Voimassaolo:** 01.08.2017 -

**Opiskelumuoto:** Intermediate Studies

**Laji:** Study module

**Vastuuyksikkö:** Health Sciences

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

**Opintokohteen kielet:** Finnish

**ECTS Credits:**

10 ECTS cr, including the following courses:

352114A Bachelor thesis 6 ECTS cr

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

See individual courses for detailed descriptions.

*Compulsory***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:**

6 ECTS cr

**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 client's 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 in small groups 6 h, peer evaluation 4 h, reading and retrieving of literature and writing of Bachelor thesis 132 h, preparation for and completion of the maturity test 12 h. Participation and presentation of the thesis in seminar day 8 h.

**Target group:**

Undergraduate health science students

**Prerequisites and co-requisites:**

352253A Research Methods in Health Sciences 5 ECTS cr

**Recommended optional programme components:**

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

**Recommended or required reading:**

Literature relevant to the Bachelor thesis. Stolt M, Axelin A & Suhonen R (2016) 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.

**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 A551110 Bachelor thesis studies 10 ECTS cr.

**352514A: Maturity test, 0 op**

**Voimassaolo:** 01.08.2016 -

**Opiskelumuoto:** Intermediate Studies

**Laji:** Course

**Vastuuyksikkö:** Health Sciences

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

**Opettajat:** Moona Huhtakangas, Heli-Maria Kuivila

**Opintokohteen kielet:** Finnish

**ECTS Credits:**

0 ECTS cr

**Timing:**

Maturity test is written in connection with study unit 352114A Bachelor thesis

**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:**

Undergraduate health science students

**Prerequisites and co-requisites:**

Bachelor thesis. The student must complete written maturity test in connection with 352114A Bachelor thesis 6 ECTS cr, for which completion of 352253A Research Methods in Health Science 5 ECTS cr is required as prerequisite.

**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.

**Other information:**

An abstract of the Bachelor thesis can be accepted as the maturity test of the Bachelor's degree if the student has demonstrated the required language skills in the use of Finnish or Swedish as a part of his/her previous higher education degree.