



UNIVERSITY OF EASTERN FINLAND

Doctoral Curricula

Academic year 2014-2015

GUIDE



UNIVERSITY OF
EASTERN FINLAND

DOCTORAL CURRICULA

Academic Year 2014-2015

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To the Reader

This is a guide for doctoral students at the University of Eastern Finland, their supervisors and those who are interested in pursuing doctoral degree studies. This guide contains all the instructions and guidelines which apply to doctoral education and doctoral students at the University of Eastern Finland. The regulations concerning individual faculties can be found on the faculties' own doctoral education websites.

The guidelines in this guide are valid during the academic year 2014-2015.

In addition to this curricula, information on doctoral education is also available from research supervisors, the faculty staff members who are responsible for doctoral studies, the university's research coordinator and the doctoral studies websites of the university and the faculties.

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1 Applying

Study guidance and administration of doctoral studies

The University of Eastern Finland's Doctoral School and the associated doctoral programmes are responsible for arranging scientific doctoral studies at the University of Eastern Finland. Doctoral students complete their licentiate or doctoral studies in one of the doctoral programmes. There are a total of 28 subject-specific or thematic doctoral programmes at the University of Eastern Finland. Administration of doctoral studies is the responsibility of the university faculties.

Study guidance for doctoral students is provided by directors of doctoral programmes, supervisors and the faculty personnel responsible for doctoral studies. Instructions can be found in this curricula, on the faculties' specific doctoral studies webpages and on the websites of doctoral programmes.

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Faculties are responsible for the administration of doctoral studies. Faculties

- decide on requirements of doctorates
- approve the doctoral studies curricula
- grant the right to pursue doctoral studies, approve the research topic and research supervisor(s), research and doctoral study plans and any changes made to these
- appoint the preliminary and final examiners for doctoral dissertations and licentiate theses and the opponents and the chairman of the public examination (the Custos) for doctoral dissertations
- grant the permission for the public examination, approve and grade the licentiate thesis and the doctoral dissertation
- approve completed doctoral degrees and award the degrees.

The purpose of doctoral programmes is to coordinate the organisation of doctoral training in their field at the University of Eastern Finland. A doctoral programme

- processes applications and makes proposals on the rights to study to be granted
- is responsible for the organisation of subject-related doctoral studies
- is responsible for the supervision of doctoral students.

The University of Eastern Finland's Doctoral School coordinates doctoral education at the university and provides transferable skills studies to all of the university's doctoral students. All doctoral students are automatically included in the doctoral school. The director of the doctoral school is Academic Rector Jukka Mönkkönen and the activities of the school are coordinated by Research Coordinator Anu Liikanen.

1.2 Aims of Doctoral Education

The aim of scientific doctoral education is to educate researchers and specialists to work independently.

The aim of doctoral education is that the student (Government Decree on University Degrees 794/2004 21 §):

- “becomes well-versed in his/her own field of research and its social significance and gains knowledge and skills needed to apply scientific research methods independently and critically and to produce new scientific knowledge within his/her field of research
- becomes conversant with the development, basic problems and research methods of his/her own field of research
- gains such knowledge of the general theory of science and of other disciplines relating to his/her own field of research as enables him/her to follow developments in them.”

According to the European framework of qualifications doctoral degrees are awarded to students who:

- “have demonstrated a systematic understanding of a field of study and mastery of the skills and methods of research associated with that field
- have demonstrated the ability to conceive, design, implement and adapt a substantial process of research with scholarly integrity
- have made a contribution through original research that extends the frontier of knowledge by developing a substantial body of work, some of which merits national or international refereed publication
- are capable of critical analysis, evaluation and synthesis of new and complex ideas
- can communicate with their peers, the larger scholarly community and with society in general about their areas of expertise
- can be expected to be able to promote, within academic and professional contexts, technological, social or cultural advancement in a knowledge based society” (A Framework for Qualifications of the European Higher Education Area, 67-68)."

1.3 Doctoral Degrees Offered at the University

Scientific doctoral education leads to either a doctoral or a licentiate degree. It is also possible to complete professional postgraduate degrees at the university. The doctoral degrees available at the University of Eastern Finland are listed in the following table.

PHILOSOPHICAL FACULTY	
Life Course in Context Doctoral Programme	Doctor of Arts / Licentiate in Arts (Psychology) Doctor of / Licentiate in Education Doctor of Philosophy
Doctoral Programme of Educational Sciences in Interdisciplinary Context	Doctor of / Licentiate in Education Doctor of Philosophy Doctor of Arts / Licentiate in Arts (Psychology)
Doctoral Programme in Language Studies	Doctor of / Licentiate in Philosophy
Doctoral Programme in Social and Cultural Encounters	Doctor of / Licentiate in Philosophy
Natural Resources, Environment and Society Doctoral Programme	Doctor of / Licentiate in Philosophy (Humanities), Doctor of / Licentiate in Education
Doctoral Programme in Border and Russian Studies	Doctor of / Licentiate in Theology, Doctor of / Licentiate in Philosophy
Doctoral Programme in Theology	Doctor of / Licentiate in Theology, Doctor of Philosophy (Theology)
FACULTY OF SCIENCE AND FORESTRY	
Doctoral Programme in Aerosol Research	Doctor of / Licentiate in Philosophy
Doctoral Programme in Photonics	Doctor of / Licentiate in Philosophy
East Finland Doctoral Programme in Computer Science and Engineering	Doctor of / Licentiate in Philosophy
Doctoral Programme of Educational Sciences in Interdisciplinary Context	Doctor of / Licentiate in Philosophy (Natural sci.) Doctor of / Licentiate in Science (Agriculture and Forestry)
Doctoral Programme in Chemistry	Doctor of / Licentiate in Philosophy
Natural Resources, Environment and Society Doctoral Programme	Doctor of / Licentiate in Philosophy Doctor of / Licentiate in Science (Agriculture and Forestry)
Doctoral Programme in Medical Physics and Engineering	Doctor of / Licentiate in Philosophy
Doctoral Programme in Mathematical Analysis and Scientific Computing	Doctor of / Licentiate in Philosophy

Doctoral Programme in Forest Sciences	Doctor of Philosophy Doctor of / Licentiate in Science (Agriculture and Forestry)
Doctoral Programme in Biology of Environmental Change	Doctor of / Licentiate in Philosophy
Doctoral Programme in Environmental Health	Doctor of / Licentiate in Philosophy

FACULTY OF HEALTH SCIENCES

Life Course in Context Doctoral Programme	Doctor of Medical Science
Doctoral Programme in Nursing Science	Doctor of / Licentiate in Philosophy Doctor of / Licentiate in Health Sciences
Doctoral Programme in Welfare and Health Research	Doctor of / Licentiate in Health Sciences Doctor of Philosophy
Doctoral Programme of Public Health	Doctor of / Licentiate in Philosophy Doctor of Dental Sciences Doctor of Medical Science Doctor of / Licentiate in Health Sciences
Doctoral Programme of Educational Sciences in Interdisciplinary Context	Doctor of / Licentiate in Science (Pharmacy)
Doctoral Programme of Clinical Research	Doctor of / Licentiate in Philosophy Doctor of Dental Sciences Doctor of Medical Science Doctor of / Licentiate in Health Sciences
Doctoral Programme in Medical Physics and Engineering	Doctor of Dental Sciences Doctor of Medical Science
Doctoral Programme in Drug Research	Doctor of / Licentiate in Science (Pharmacy) Doctor of / Licentiate in Philosophy Doctor of Dental Sciences Doctor of Medical Science
Doctoral Programme in Environmental Health	Doctor of / Licentiate in Science (Pharmacy) Doctor of Medical Science Doctor of / Licentiate in Health Sciences Doctor of / Licentiate in Philosophy
Doctoral Programme in Molecular Medicine	Doctor of / Licentiate in Science (Pharmacy) Doctor of / Licentiate in Philosophy Doctor of Dental Sciences Doctor of Medical Science Doctor of / Licentiate in Health Sciences
Doctoral Programme in Nutritional Sciences	Doctor of / Licentiate in Philosophy Doctor of Dental Sciences Doctor of Medical Science

FACULTY OF SOCIAL SCIENCES AND BUSINESS

Past, Space and Environment in Society Doctoral Programme	Doctor of / Licentiate in Philosophy (Humanities and Natural sci.) Doctor of / Licentiate in Social Sciences, Doctor in Philosophy (Social sci.)
Doctoral Programme in Welfare and Health Research	Doctor of / Licentiate in Social Sciences, Doctor in Philosophy (Social sci.)
Life Course in Context Doctoral Programme	Doctor of / Licentiate in Social Sciences, Doctor in Philosophy (Social sci.)
Doctoral Programme in Business	Doctor of / Licentiate in Science (Economics and Business Administration), Doctor of Philosophy (Economics)
Doctoral Programme in Social and Cultural Encounters	Doctor of / Licentiate in Social Sciences, Doctor in Philosophy (Social sci.)
Natural Resources, Environment and Society Doctoral Programme	Doctor of / Licentiate in Philosophy (Natural sci.) Doctor of / Licentiate in Administrative Sciences, Doctor of Philosophy (Social sci.) Doctor of / Licentiate in Law, Doctor of Philosophy (Law) Doctor of / Licentiate in Social Sciences, Doctor in Philosophy (Social sci.)
Doctoral Programme in Law	Doctor of / Licentiate in Administrative Sciences, Doctor of Philosophy (Social sci.) Doctor of / Licentiate in Law, Doctor of Philosophy (Law) Doctor of / Licentiate in Social Sciences, Doctor in Philosophy (Social sci.)
Doctoral Programme in Social and Health Management	Doctor of / Licentiate in Health Sciences, Doctor of Philosophy (Health sci.) Doctor of / Licentiate in Social Sciences, Doctor in Philosophy (Social sci.)
Doctoral Programme in Social Work and Social Services	Doctor of / Licentiate in Social Sciences, Doctor in Philosophy (Social sci.)
Doctoral Programme in Russian and Border Studies	Doctor of / Licentiate in Philosophy (Humanities and Natural sci.) Doctor of / Licentiate in Administrative Sciences, Doctor of Philosophy (Social sci.) Doctor of / Licentiate in Science (Economics and Business Administration), Doctor of Philosophy (Economics) Doctor of / Licentiate in Law, Doctor of Philosophy (Law) Doctor of / Licentiate in Health Sciences, Doctor of Philosophy (Health sci.) Doctor of / Licentiate in Social Sciences, Doctor in Philosophy (Social sci.)

1.4 Eligibility for Doctoral Education and Admission Criteria

According to the Universities Act of Finland (558/2009, Chapter 5, Section 37), those eligible for studies leading to an academic or artistic postgraduate degree shall be a person who has completed

- 1) an applicable higher university degree
- 2) an applicable higher polytechnic degree
- 3) an applicable education completed abroad which in the awarding country gives eligibility for corresponding higher education.

Further provisions concerning eligibility for professional postgraduate degrees shall be enacted by Government Decree.

The university may require that a person who has been accepted to pursue doctoral studies completes a necessary amount of supplementary studies to ensure that he/she is qualified to take part in doctoral studies. If the student applies for a doctoral study right in his/her major subject or in a subject in which he/she has completed advanced studies, he/she is generally eligible for doctoral studies in that subject. However, if the student applies for a doctoral study right in a field which has not been the main field of his/her Master's degree and his/her additional studies have not given him/her eligibility to pursue doctoral studies in the field to which he/she has applied, the faculty may require that the student completes supplementary studies. Possible supplementary studies are specified when the right to doctoral studies is granted. They cannot be included in the doctoral degree.

The admission criteria for doctoral programmes at the University are different for each programme. Programme-specific admission criteria are described in Chapter 2.2.

It is also possible to complete a professional licentiate degree at the university. Instructions on how to apply for the right to pursue studies for a professional licentiate degree can be found on the websites of the faculties.

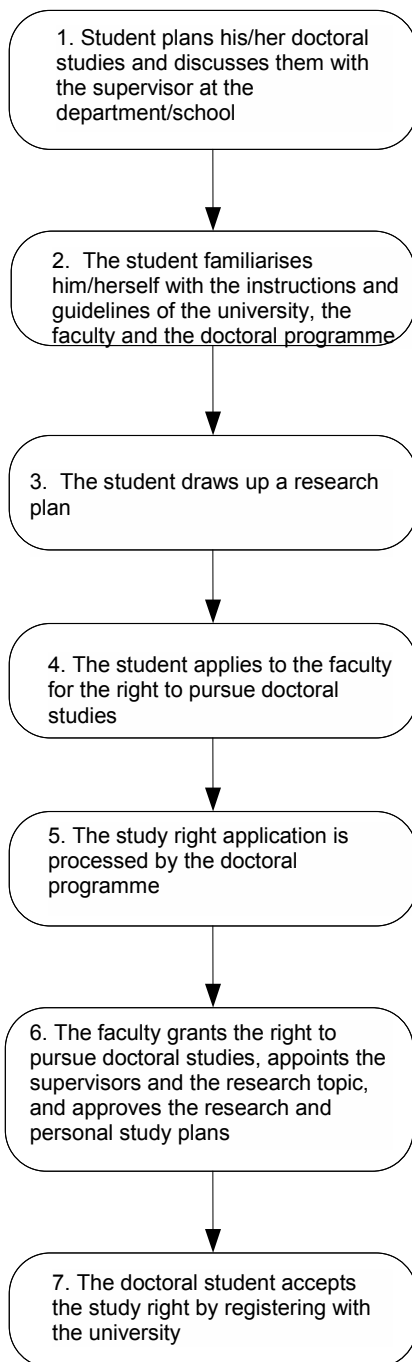
1.5 Application Procedure for the Right to Doctoral Studies

A doctoral study right is granted as a result of an application in which the applicant suggests supervisors and makes a personal doctoral study plan and a research plan. The criteria of eligibility for doctoral degree studies are described in Chapter 1.4. If the applicant is applying for a doctoral study right in a scientific field which is different from the main subject of his/her Master's degree, the applicant may be required to complete supplementary studies to become eligible for doctoral studies.

1. The prospective doctoral student discusses the possibility to pursue doctoral studies in the department or school with the potential supervisor(s) or with the coordinator/head of the doctoral programme. The right to pursue doctoral studies may be applied with the faculty between one and four times a year depending on the doctoral programme in question. During the academic year 2014-2015, the deadlines for applications are 31 August, 30 November, 28 February and 30 April. Programme-specific deadlines are listed in the descriptions of doctoral programmes (Chapter 2.2 Doctoral programmes).
2. The prospective doctoral student studies the instructions and guidelines concerning the doctoral programme issued by the university, the faculty and the programme. The

university's guidelines and links to the faculties' doctoral education guidelines are available in this guide and at www.uef.fi/uef/jatko-oppaat.

3. The prospective doctoral student discusses the research topic, doctoral studies and their completion, as well as other supervisors with the future main supervisor. Each doctoral student must have at least two supervisors. One of the supervisors must hold a professor's or a docent's title with the University of Eastern Finland or have a corresponding scientific qualification. (Faculty of Science and Forestry's specific guidelines concerning the qualification of supervisors can be found at: <http://www.uef.fi/lumet/ohjeita-jatko-opiskelijoille>). The prospective doctoral student and the supervisors must negotiate and agree on responsibilities and commitment to supervising the student's research project. The supervisors must give their written consent on the application form. The prospective doctoral student draws up a preliminary research plan. The doctoral student must indicate in the application the doctoral programme for which the student is applying the right to study.
4. The prospective doctoral student applies for the right to pursue doctoral studies using an application form available on the website of the doctoral school. The application, complete with the required signatures and attachments, shall be delivered to the faculty's Administration Service Centre. Application attachments:
 - a copy of the basic university degree certificate, and other documents which may affect the granting of a study right
 - a transcript of earlier academic records
 - a preliminary research plan approved by the main supervisor (for guidance, see 1.5.1)
 - if necessary, a statement from the Committee on Research Ethics and a permission for the use of laboratory animals
5. The application for pursuing doctoral studies is processed by the relevant doctoral programme.
6. The faculty decides whether the right to pursue doctoral studies should be granted on the basis of a proposal made by the doctoral programme. When the right to study is granted, the faculty decides on any supplementary studies required, confirms the research topic, appoints the supervisors and approves the research plan and the personal doctoral study plans. The faculty communicates its decision to the applicant, the supervisors, the Student and Learning Services and the doctoral programme in question. Similarly, negative decisions and their justifications are communicated to the applicant, the supervisors and the doctoral programme. In addition, the applicant is provided with instructions on how to appeal the decision.
7. After having been granted the right to pursue doctoral studies, the student immediately registers as a doctoral student using a registration form which shall then be submitted to the Student and Learning Services. In subsequent academic years, the registration must be carried out by mid-September. Further information: www.uef.fi/opiskelu/lukuvuosi-ilmoittautuminen and <http://www.uef.fi/opiskelu/uudet-jatko-opiskelijat>
8. Doctoral student must submit a personal doctoral study plan to the Faculty Administration Office within 3 months after receiving the study right.



1.5.1 Research Plan

When applying for doctoral degree studies, a research plan must be enclosed with the application. The student prepares the plan with his/her supervisors, and it must be approved by them. The research plan must cover the entire licentiate thesis or doctoral dissertation. If the research topic and materials change substantially, a new plan must be made. If the changes are significant, approval must be sought from the faculty. The research plan is usually drafted in Finnish or English.

The research plan can include the following information, for example:

1. Title of the research and the name and contact information of the postgraduate student
2. Background
 - i. a short summary of the background to the research with necessary sources (including the theoretical and methodological basis)
 - ii. a description of earlier research related to the topic
 - iii. a description of what remains unknown about the research topic and an explanation of the research's relevance on a national and/or international scale
3. Aims
 - i. the research hypotheses
 - ii. the aims of the research clearly defined and presented
4. Materials and methods
 - i. a description of the research methods and materials used, and the grounds for choosing the particular methods
 - ii. a description of how the materials will be handled and used (also after the research has been completed)
 - iii. a working plan, a plan for different stages of the work
5. Schedule and funding plans
 - i. a description and a schedule for the different stages of the work
 - ii. the funding plan and funding sources of the research
6. The ethical aspects of the research
 - i. the ethical aspects of the research (e.g. whether the research requires statements from ethics committees or statutory research permits; possible permits should be attached to the research plan)
7. Publication plan
 - i. the means and mode of publishing and/or presenting the research results
8. Applications of research results
 - i. an estimation of the applications and the social significance of the research results
9. References
 - i. a list of the research field's principal literature used for the research
10. The names of the persons and units participating in the research project

1.5.2 Doctoral Study Plan

Each doctoral student makes a personal study plan with his/her main supervisor **according to the degree structure of his/hers doctoral programme** (see Chapter 2.2). The doctoral student must submit his/her personal study to the Faculty Administration Office within 3 months after the doctoral student has received the study right. An approved study plan can be altered following a proposal made by the student and the supervisor.

The personal study plan includes, for example:

- the doctoral degree's courses, their schedule and the modes of completing them
- possible complementary studies and their schedule
- the licentiate thesis or doctoral dissertation topic and research plan

1.5.3 Decision Appeals

Any applicant who is dissatisfied with the student selections may apply for a written rectification from the Board of Appeal of the University of Eastern Finland. The deadline for making the request for rectification is fourteen (14) days after the applicant has been notified of the decision. The request for rectification must be addressed to the Board of Appeal and delivered to the Registry Office of the University of Eastern Finland within the prescribed deadline. If the request for rectification is delivered after fourteen days, it will not be investigated.

2 Doctoral Studies

2.1 University Registration and Practical Matters

Registration

After being notified of receiving a right to pursue doctoral studies, new doctoral students register as students in the student register. A registration form is enclosed with the admission letter sent to new doctoral students by the faculty. The student completes the form and submits it to Student and Learning Services:

University of Eastern Finland Student and Learning Services Joensuu campus PO Box 111 FI-80101 Joensuu	University of Eastern Finland Student and Learning Services Kuopio campus PO Box 1627 FI-70211 Kuopio	University of Eastern Finland Student and Learning Services Savonlinna campus PO Box 86 FI-57101 Savonlinna
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The form is only used for first-time registration. In subsequent years, registration takes place through WebOodi, by telephone, by email or by visiting the Student and Learning Services.

The registration period for the next academic year must be done by 15 September. It is necessary to register at the university each year in order to maintain the study right. No registration fee is charged. An approved registration as a doctoral student is required before e.g. study credits can be entered into the study register.

If a student has failed to register with the university during the registration period (by 15 September), he/she must submit a written application for the right to re-register (Universities Act 558/2009, Section 39). The re-registration fee, which also applies to doctoral students, is 35 euros (laid down in the decree of the Ministry of Education 737/2007). Re-registration mainly takes place by visiting Student and Learning Services. It is also possible to register by phone or by email. In this case, the re-registration payment receipt should be sent to Student and Learning Services by post.

Registration instructions are available at: <http://www.uef.fi/opiskelu/opiskeluioikeus>

User accounts

At the University of Eastern Finland, a user account is created automatically for all new students and employees. A user account can be activated after a student has been registered as an attending student.

A username is required to access the university's intranet services and WebOodi. WebOodi is a tool for managing one's studies, such as registering for courses and exams, and for monitoring the process of one's studies. Having a user account also enables online access to scientific journals to which the university has subscribed. Students are notified of scholarships and their application procedures via the intranet. A number of university forms are also accessed this way.

Students who have completed their Master's degree in the University of Eastern Finland can use their former UEFAD user account also during their doctoral studies. The user account

must be activated online by using one's personal online banking account. For further information on activating the user account, see <http://www.uef.fi/tike/uef-tunnuksen-aktivointi>

For more instructions related to user accounts, please contact the IT Centre.

Service request form: <http://www.uef.fi/tike/palvelupyyntolomake>

Service requests: servicedesk@uef.fi

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2.2 Doctoral Programmes – Admission Criteria and Study Requirements

At the University of Eastern Finland, scientific doctoral studies have been arranged as doctoral programmes since the beginning of 2013. All doctoral students are selected to attend a specific doctoral programme, and they pursue doctoral studies according to the requirements of the programme.

According to Section 22 of the Finnish Government Decree on University Degrees 794/2004, to be awarded a Doctoral Degree, the postgraduate student must:

- 1) complete the required postgraduate studies
- 2) demonstrate independent and critical thought in the field of research; and
- 3) write a doctoral dissertation and defend it in public.

A student who has been accepted to pursue doctoral education can also complete a licentiate degree. For the licentiate degree one has to complete the specified amount of studies which the university requires as well as any possible specialisation studies included in the degree. The licentiate degree includes also a licentiate thesis in which the student demonstrates his/her knowledge of the research field and his/her ability to apply the methods of scientific research in practice independently and critically.

The doctoral or licentiate degrees that can be completed in a doctoral programme have been listed under each programme. The following section provides details on the admission criteria for the doctoral programmes at the University of Eastern Finland and the structure of the degrees in each faculty.

2.2.1 Philosophical Faculty

2.2.1.1 Life Course in Context Doctoral Programme

The objective of the Life Course in Context doctoral programme is to offer multidisciplinary and high-level research training to postgraduate students whose research addresses human agency, life course and interaction in the context of training, education, working life, social relations and (mental) health. The doctoral programme, the disciplines it represents and the research groups of the academic subjects involved in it all share an interest in studying individuals in their social contexts. Furthermore, the slightly different emphases of the disciplines in terms of the individual-society axis supplement one another.

The Life Course in Context doctoral programme also underscores the dialogue between professional practices and research. The objective of the doctoral programme is to train researchers and experts to develop the practices relating to counselling, guidance and various interventions maintaining and strengthening an individual's agency. A growing demand for experts

in the field is likely, as changes in society create an increasing need for expertise and support pertaining to individual coping and life planning.

Degrees available in the doctoral programme

The following table lists the degrees and the major subjects available in the doctoral programme.

Degree	Major subject
Doctor of Philosophy	Psychology
Doctor of Arts (Psychology) and Licentiate in Arts (Psychology)	Psychology
Doctor of Education and Licentiate in Education	Adult education, special education, educational science
Doctor of Social Sciences and Licentiate of Social Sciences	Social pedagogy, social psychology, social work, sociology, social policy
Doctor of Medical Science	Fields of medicine

Eligibility for doctoral education and student admission criteria

Eligibility for doctoral education comes from the Finnish legislation, requirements are defined in Chapter 1.4. Persons who have completed a higher university degree majoring in educational science, adult education, special education, social pedagogy, social psychology, social work, sociology or social policy, or who have completed advanced studies in these subjects, can be admitted as postgraduate students to the Life Course in Context doctoral programme. Furthermore, persons who have completed an applicable Finnish Master's degree (multidisciplinary Master's degree programmes) which gives eligibility for corresponding higher education can be admitted as students to the doctoral programme. Persons who have completed a higher university degree majoring in psychology, or an equivalent degree which legitimises them to act as a licensed psychologist, as well as persons who have completed the Licentiate of Medicine degree can be admitted as students to the doctoral programme. Students pursuing the Licentiate in Arts (Psychology) or the Doctor of Arts (Psychology) degree are required to hold a higher university degree majoring in psychology or an equivalent degree which entitles them to practice the profession of a psychologist. Students pursuing the Doctor of Medical Science degree are required to hold a Licentiate of Medicine degree.

If a person is applying for admission to the doctoral programme with a higher university degree majoring in some other subject than adult education, special education, educational science, social pedagogy, social psychology, sociology, or social policy, and the person's additional studies have not given him or her general eligibility for postgraduate education, the faculty may, at the proposal of the doctoral programme, require the person to complete 25–40 ECTS of complementary studies. Any possible complementary studies required of the student are defined at the time of granting him or her the right to pursue postgraduate studies. These complementary studies cannot be included in the student's degree.

Furthermore, persons who have completed an applicable education abroad which in the awarding country gives eligibility for corresponding postgraduate education can be admitted as students to the doctoral programme. The degree must be completed in a field which corresponds to the major subject of the postgraduate degree, and it must be completed by

the end of the application period. A Master's degree completed abroad is accepted as corresponding to a Finnish higher university degree. In countries which have committed to the Bologna Declaration, degrees are accepted as such. Degrees completed in other countries are assessed separately and case-specifically.

To be admitted to the Life Course in Context doctoral programme, the student's research proposal need to obtain the approval and recommendation of the Board of the doctoral programme. Furthermore, at least one of the student's supervisors is required to be a member of the doctoral programme and a UEF professor or docent of counselling, psychology, social pedagogy, social psychology, sociology or social policy, or a person who holds corresponding qualifications.

Moreover, when selecting doctoral students to the programme, the Board evaluates the following things:

- Quality of the research proposal: its innovativeness, clarity, method of completion and feasibility.
- General scientific relevance of the research topic and its linkage to the research profile of the Life Course in Context doctoral programme.
- Academic performance in studies leading to a higher university degree: the grade of the thesis or equivalent, the grades indicated on the degree certificate, and the progress speed of the studies. If the applicant's studies leading to a higher university degree do not include a thesis or equivalent, the applicant's academic performance is evaluated on the basis of the grades indicated on the degree certificate and the progress speed of the studies.
- Demonstrated experience in research work: researcher positions, scientific publications and acquired research funding, e.g., will also be considered merits.

How to apply

The application procedure for doctoral studies is described in detail in Chapter 1.5. The doctoral programme invites applications twice a year, and the application periods close on the last day of February and August. The applicant must state in the application form the target degree and the major subject.

Applications to the professional specialist psychologist education leading to the Licentiate of Arts (Psychology) degree are invited in a national call. Further information on the application periods and the degree requirements associated with the specialist psychologist degree is available on the website of Psykonet, www.psykonet.fi. Students admitted to the specialist psychologist education may participate in the seminars and supervision of the Life Course in Context doctoral programme.

Within 3 months after obtaining the right to pursue postgraduate studies, the student must submit a study plan for the postgraduate studies, accepted by the supervisor, to the amanuensis.

Study requirements

The studies required for the licentiate and doctoral degrees offered by the doctoral programme comprise the licentiate thesis or doctoral dissertation, transferable skills studies (10–15 ECTS), and studies in the discipline and field of research (35–40 ECTS, totalling 50 ECTS). The studies required for the Doctor of Medical Science degree comprise the doctoral dissertation, transferable skills studies (5–15 ECTS), and studies in the discipline and field of research (15–25 ECTS, totalling 30 ECTS).

Doctor of / Licentiate in Arts / Education / Philosophy

Transferable skills studies (10–15 ECTS)

Studies in research ethics (1 ECTS)

Other studies (9–14 ECTS)

Studies in the discipline and field of research (35–40 ECTS)

Participation in the doctoral programme's research seminar (10 ECTS)

Other postgraduate studies in the student's field of research and the doctoral programme (10–15 ECTS)

Methodological studies (5 ECTS)

Academic and working life skills (10 ECTS)

Dissertation / Licentiate Thesis

Doctor of Medical Science

Transferable skills studies (5–15 ECTS)

Studies in research ethics (1 ECTS)

Other studies (4–14 ECTS)

Studies in the discipline and field of research (15–25 ECTS)

Participation in the doctoral programme's research seminar (10 ECTS)

Other postgraduate studies in the student's field of research and the doctoral programme (5–15 ECTS)

Dissertation

After completing the transferable skills studies, the student masters the ethical principles of conducting research and is able to communicate about his or her field of expertise in both Finnish and English.

The studies in the discipline and field of research deepen the knowledge the student has obtained of his or her discipline during the undergraduate studies. Furthermore, the studies enhance the student's mastery of the theory and methodology of research and give the student the skills needed in positions requiring a high level of academic expertise both within and outside of academia.

The studies offered by the doctoral programme comprise the Life Course in Context post-graduate seminar, which meets twice a year. The modes of study include expert lectures and working groups. The mode of completion of the course is the presentation of the student's research in the seminar's working groups. Furthermore, seminar working is offered to groups formed on the basis of the major subject or field of research.

Board of the Doctoral Programme

Director, Prof. Katri Komulainen (psychology), Prof. Vilma Hänninen (social psychology), Prof. Juha Hämäläinen (social pedagogy), Prof. Eeva Jokinen (social policy), Prof. Leena Koski (sociology), Prof. Aarno Laitila (psychology), Prof. Marjatta Vanhalakka-Ruoho (counselling), Student members Vesa Korhonen (Philosophical Faculty) and Toni Kosonen (Faculty of Social Sciences and Business Studies)

Contact details of the doctoral programme:

Prof. Katri Komulainen
Philosophical Faculty,
Psychology
+358 50 4422 670

Prof. Vilma Hänninen
Faculty of Social Sciences and Business Studies,
Social Psychology
+358 40 0911 269

2.2.1.2 Doctoral Programme of Educational Sciences in Interdisciplinary Context

The Doctoral Programme of Educational Sciences in Interdisciplinary Context offers research training for students pursuing licentiate and doctoral degrees in the fields of education and psychology. The themes of research available to students in the programme are related to education, schooling, human development, teaching, learning, counselling and the processes of teacher education. In the field of home economics and craft science, the themes of research also encompass well-being and social and cultural issues. The doctoral programme offers possibilities for multi-disciplinary and multi-method research in the field of educational sciences.

The disciplines represented in the doctoral programme are adult education, special education, educational science, psychology, home economics, craft science, and early childhood education.

The doctoral programme also accepts students pursuing a doctoral degree in the field of science, agriculture and forestry, or pharmacy. In these cases, the theme of the student's licentiate thesis or doctoral dissertation is required to be linked to the themes of research of the doctoral programme.

Schools and departments participating in the doctoral programme:

Philosophical Faculty

School of Educational Sciences and Psychology (contact person: Professor Leena Holopainen)

School of Applied Educational Science and Teacher Education (Joensuu Campus and Savonlinna Campus; contact person: Professor Tuula Keinonen)

Faculty of Science and Forestry

Department of Physics and Mathematics, Department of Chemistry (contact person: Docent Pekka Hirvonen)

School of Forest Sciences (contact person: Professor Timo Tokola)

Faculty of Health Sciences

School of Pharmacy (contact person: Kirsti Vainio, Doctor of Science (Pharmacy))

Degrees available in the doctoral programme

The table below lists the degrees and major subjects available in the doctoral programme:

Degree	Faculty	Major subject
Doctor of Education and Licentiate in Education	Philosophical Faculty	Adult education, special education, educational science, home economics, craft science
Doctor of Philosophy	Philosophical Faculty	Adult education, educational science
Doctor of Arts (Psychology) and Licentiate in Arts (Psychology) Doctor of Philosophy	Philosophical Faculty	Psychology
Doctor of Philosophy and Licentiate in Philosophy	Faculty of Science and Forestry	Physics, chemistry, mathematics

Doctor of Science (Agriculture and Forestry) and Licentiate in Science (Agriculture and Forestry) Doctor of Philosophy and Licentiate in Philosophy	Faculty of Science and Forestry	Forest sciences
Doctor of Science (Pharmacy) and Licentiate in Science (Pharmacy)	Faculty of Health Sciences	Social pharmacy

Eligibility for doctoral education and student admission criteria

Eligibility for doctoral education comes from the Finnish legislation, requirements are defined in Chapter 1.4. Persons who have completed a higher university degree majoring in adult education, special education, educational science, home economics, craft science or psychology, or who have completed advanced studies in these subjects, can apply for admission to the Doctoral Programme of Educational Sciences in Interdisciplinary Context. Furthermore, persons who have completed some other applicable Finnish Master's degree or a higher polytechnic degree can apply for admission to the programme.

Students applying for admission to pursue a Licentiate in Arts (Psychology) or a Doctor of Arts (Psychology) degree are required to have majored in psychology in their higher university degree or to have completed a corresponding degree which entitles them to practice the profession of a psychologist.

If a person is applying to the Philosophical Faculty for the right to pursue doctoral studies with a higher university degree majoring in some other subject than adult education, special education, educational science, home economics, or craft science, and the person's additional studies have not given him or her general eligibility for postgraduate education, the faculty may, at the proposal of the doctoral programme, require the person to complete 15–60 ECTS of complementary studies. Furthermore, if the applicant changes his or her major subject, the faculty may, at the proposal of the Doctoral Programme of Educational Sciences in Interdisciplinary Context, require him or her to complete 15–60 ECTS of complementary studies. Persons who have completed a higher polytechnic degree are required, as proposed by the doctoral programme, to complement their studies to correspond to one of the above-mentioned higher university degrees. Any possible complementary studies required of the student are defined at the time of granting him or her the right to pursue postgraduate studies. These complementary studies cannot be included in the doctoral degree.

Furthermore, persons who have completed an applicable education abroad which in the awarding country gives eligibility for corresponding doctoral education can apply for admission to the doctoral programme. The degree must be completed in a field which corresponds to the major subject of the doctoral degree, and it must be completed by the end of the application period. A Master's degree completed abroad is accepted as corresponding to a Finnish higher university degree. In countries which have committed to the Bologna Declaration, degrees are accepted as such. Degrees completed in other countries are assessed separately and case-specifically.

To be accepted as a doctoral student to the Doctoral Programme of Educational Sciences in Interdisciplinary Context to pursue a degree awarded by the Philosophical Faculty, the applicant must have completed advanced studies, and achieved the grade *good* or higher, in the major subject of the postgraduate studies or in an applicable related subject, or the applicant must have completed other studies which correspond to them. The applicant's Master's thesis or corresponding work must have achieved a grade which corresponds to at least *good* (i.e. the grade must be *cum laude approbatur* or higher, or 3/5 or higher). If the applicant's earlier degree does not include a Master's thesis or a corresponding work or its grade is lower than that mentioned above, the applicant's academic performance is evaluated on the basis of the grades indicated on his or her degree certificate, or on the basis of other merits to be evaluated by the professor of the subject.

Applicants applying for the right to pursue doctoral studies at the Faculty of Science and Forestry or at the Faculty of Health Sciences are required to meet the admission criteria of the faculty concerned. In addition to an applicable Master's degree, applicants are required to hold a subject teacher qualification in physics, chemistry or mathematics. In forest sciences, applicants are required to hold a vocational teacher qualification or to have completed corresponding studies. In physics, chemistry and mathematics, the themes of research available to doctoral students within the doctoral programme address the teaching and learning of physics, chemistry or mathematics, as well as the related teacher education. In forest sciences, the themes of research available to doctoral students within the doctoral programme address issues relating to the field's teaching and learning; and in social pharmacy, the themes of research are related to medicine education.

The most important admission criteria is the applicant's research proposal, which need to obtain the approval and recommendation of the doctoral programme. The main supervisor is required to be a member of staff of the faculty in which the postgraduate student is completing his or her degree. The Board of the Doctoral Programme of Educational Sciences in Interdisciplinary Context assesses the relevance of the applicant's research proposal to the themes of research of the doctoral programme. The availability of sufficient expertise for the supervision of the applicant's licentiate thesis or doctoral dissertation is a precondition for admission. At least one of the supervisors shall hold a professor's or a docent's title with the University of Eastern Finland or have a corresponding qualification.

How to apply

The application procedure for doctoral studies is described in detail in Chapter 1.5. The Doctoral Programme of Educational Sciences in Interdisciplinary Context invites applications twice a year, and the application deadlines are 28 February and 31 August. Commitment of the proposed supervisor must be included in the application form. A research plan, a copy of the applicant's degree certificate and a transcript of academic records must be included as an appendix. The applicant must state in the application form the target degree and the major subject.

Within 3 months after obtaining the right to pursue postgraduate studies, the student must submit a study plan for the postgraduate studies, accepted by the supervisor, to the amanuensis.

Study requirements

The studies leading to the licentiate and doctoral degrees available in the doctoral programme comprise the licentiate thesis or the doctoral dissertation, as well as transferable skills studies and studies in the discipline and field of research.

Studies required of students completing a licentiate or a doctoral degree at the Philosophical Faculty:

Courses of the doctoral programme	Extent
Research skills and working life orientation	Total 50 ECTS
Transferable skills studies	10 ECTS
<i>Philosophy of science and ethics</i>	3 ECTS
Research Ethics 1 ECTS/ UEF; Methodology and history of science 1.5 ECTS/ UEF and/or Philosophy of Science 0.5–2 ECTS	
Scientific Writing for Postgraduate Students/ UEF 2 ECTS	2 ECTS
<i>Academic and other working life skills</i>	5 ECTS
For example: Presentations in scientific conferences, academic teaching positions and other expert positions, Speech Communication for Postgraduate Students 2 ECTS/ UEF; Media Communication for Postgraduate Students 2 ECTS/ UEF; Introduction to Immaterial Property Rights 1 ECTS/ UEF.	
Studies in the discipline and field of research	40 ECTS
<i>Research methods</i>	5 ECTS
Methodological studies offered by the faculties	
Research seminar of the student's discipline or research group	10 ECTS
Other discipline-specific postgraduate studies and/or major or minor subject studies supporting the postgraduate research.	25 ECTS

Board of the Doctoral Programme

Director, Professor Tuula Keinonen, Professor Leena Holopainen (special education), Senior Lecturer Risto Ikonen (educational science), Professor Sinikka Pöllänen (craft science), Professor Pertti Väisänen (educational science), Senior Lecturer Kati Kasanen (psychology), Associate Professor Pekka Hirvonen (Department of Physics and Mathematics), Senior Lecturer Kirsti Vainio (School of Pharmacy) and Student representative, to be appointed later.

2.2.1.3 Doctoral Programme in Language Studies

The Doctoral Programme in Language Studies offers high-level, multidisciplinary and international research training on topics related to language structure, linguistic interaction, and translation and interpreting. While research at the School of Humanities as a whole focuses on cultural contacts, the Doctoral Programme in Language Studies specializes in the linguistic aspects of such encounters: language contacts and translation in contact situations, language acquisition and linguistic processing. Other research topics include the dynamics of variation and change as well as multilingual communication and linguistically and translato-logically oriented study of literatures and cultures. The doctoral programme cooperates with the national doctoral programme in language studies *Langnet*, the doctoral programmes *Social and Cultural Encounters* and *Doctoral Programme in Russian and Border Studies* at the University of Eastern Finland, and the international *EMUNI Translation Studies Doctoral and Teacher Training Summer School* (Slovenia), among others.

The Doctoral Programme in Language Studies trains researchers and experts who are able to apply various methods and theoretical approaches to the analysis of languages, communicative situations and linguistic processing and who can successfully manage demanding tasks related to language policy, language and translation technology and multilingual communication.

Degrees available in the doctoral programme

The programme offers the following degrees: Licentiate in Philosophy (filosofian lisensiaatti) and Doctor of Philosophy (filosofian tohtori). The degree will be awarded in a field of research in linguistics or translation studies covered by the doctoral programme or one of the academic subjects representing these fields at the University of Eastern Finland. The possible major subjects are: English Language and Culture, English Language and Translation, German Language and Culture, German Language and Translation, Linguistics, Russian Language and Culture, Russian Language and Translation, Swedish, and Translation Studies.

Eligibility for doctoral education and student admission criteria

Eligibility for doctoral education comes from the Finnish legislation, requirements are defined in Chapter 1.4.

A successful candidate will hold a Master's degree in languages, linguistics or translation studies or a suitable higher degree from a university of applied sciences. The admission criteria include success in MA studies and a high-quality research plan.

A Master's-level degree earned abroad will be considered the equivalent of a Finnish Master's degree. Degrees awarded by signatories to the Bologna Accords shall be accepted as such; degrees awarded elsewhere will be assessed on an individual basis. Individual assessment is also used in the case of applicants who have studied Finnish as a foreign language and are applying for a doctoral degree in Finnish language. Applicants may be required by the Philosophical Faculty to complete supplementary studies; these will be listed in the personal study plan. Supplementary studies cannot be included in the doctoral degree.

The minimum requirement for a successful application is the grade "good" (3/5, cum laude approbatur or equivalent) in both the applicant's MA studies and the MA thesis or equivalent. If the previous studies do not include a thesis or final paper, or its grade is below the level mentioned above, the programme board will evaluate whether the applicant can, upon presenting additional proof of academic merit (e.g. publications), be considered qualified to apply. For degrees obtained abroad, the levels of correspondence will be assessed individually.

A research plan, a copy of the applicant's degree certificate and a transcript of academic records must be included as an appendix to the application form. The applicant must state in the application form the target degree and the major subject. The most important admission criterion for the doctoral programme is the quality of the research plan. The research plan is drafted according to the guidelines provided by the University of Eastern Finland, and it needs to clearly indicate the research question(s), theoretical background/framework and methods for answering that question. Admission requires the approval of the research plan by the programme board. In addition, admission is contingent on the availability of supervision in the field of the applicant's proposed topic for a licentiate's or doctoral dissertation within the doctoral programme.

How to Apply

The application procedure for doctoral studies is described in detail in Chapter 1.5. The doctoral Programme invites applications three times per year. The application deadlines are on the last day of April, August and November.

Within 3 months after obtaining the right to pursue postgraduate studies, the student must submit a study plan for the postgraduate studies, accepted by the supervisor, to the amanuensis.

Study requirements

Tuition in the programme is at least partially in Finnish. Alternative modes of study will be agreed upon by the supervisor.

1. Transferable skills studies (10–15 ECTS)

From among courses offered centrally by the University of Eastern Finland, the programme requires the following: Research ethics (1 ECTS)

The other courses (9–14 ECTS) offered centrally can be chosen freely. They may e.g. include:

Conference English (3 ECTS)

Media skills (2 ECTS)

Information skills for postgraduate students (2 ECTS)

Scientific writing (2 ECTS)

2. Studies in the discipline and field of science (35–40 ECTS)

Research seminar (10 ECTS)

Methodological studies (5–10 ECTS)

Academic professional skills (5–10 ECTS)

Specialized studies (5–10 ECTS)

3. Licentiate or Doctoral thesis

Board of the Doctoral Programme

Director, Professor Marjatta Palander (Professor of Finnish), Vice-director Professor Leena Kolehmainen (Acting Professor of German Language and Translation), Professor Riitta Jääskeläinen (English Language and Translation), Professor Kaisa Koskinen (Translation Studies), Professor Lea Siilin (Russian Language and Culture) and a postgraduate student representative MA Juha Lång (vice student representative Franka Kermer).

Contact persons: Marjatta Palander and Leena Kolehmainen (vice contact person).

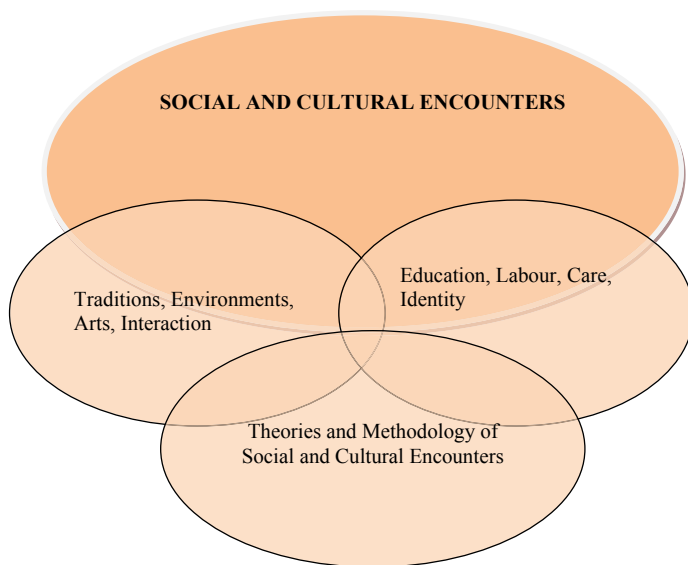
2.2.1.4 Doctoral Programme in Social and Cultural Encounters

The Doctoral Programme in Social and Cultural Encounters is a multidisciplinary programme for doctoral students in the humanities and social sciences. Its research focuses on various cultural and social phenomena in variable environments. The doctoral programme includes about 60 doctoral students who are studying languages, cultural or translation studies in the School of Humanities in the Philosophical Faculty, or sociology or social policy in the Department of Social Sciences.

The aim of the doctoral programme is to offer high-level, multidisciplinary research training for postgraduate students. The particular value of the programme arises from dialogue and multidisciplinary encounters between different disciplines. Multidisciplinary creates opportunities for innovative, nationally and internationally networked education and research environments and enables the emergence of new kinds of research groups.

This training emphasizes empirical fieldwork, interpretation of various textual materials and the juxtaposition of theories and methodologies within the humanities and social sciences. Specific research areas are cultural and social phenomena, practices, relations and differences (e.g. traditions, environments, arts, interaction, identity, education, labour and care) and their transformations locally, nationally and globally in a changing environment.

The Doctoral Programme in Social and Cultural Encounters works in close cooperation with two doctoral programmes within the University of Eastern Finland: the Doctoral Programme in Language Studies (Philosophical Faculty) and the Doctoral Programme in Russian and Border Studies (Karelian Institute). In addition, the Doctoral Programme in Social and Cultural Encounters has formed established training and cooperation networks with national doctoral programmes and researcher networks, with which this cooperation will continue.



Degrees available in the doctoral programme

This programme offers the following degrees: Licentiate in Philosophy (filosofian lisensiaatti), Doctor of Philosophy (filosofian tohtori), Licentiate in Social Sciences (yhteiskuntatieteiden lisensiaatti) and Doctor of Social Sciences (yhteiskuntatieteiden tohtori).

Eligibility for doctoral education and student admission criteria

Eligibility for doctoral education comes from the Finnish legislation, requirements are defined in Chapter 1.4. Prospective students are required to hold a Master's degree in a relevant field

of study or an applicable higher degree from a university of applied sciences. Admission criteria include success in MA studies and a high-quality research plan.

A Master's-level degree earned abroad will be considered the equivalent of a Finnish Master's degree. Degrees awarded by signatories to the Bologna Accords shall be accepted as such; degrees awarded elsewhere will be assessed on an individual basis. Applicants may be required by the faculty or doctoral programme to complete supplementary studies; these will be listed in the personal study plan. Supplementary studies cannot be included in the doctoral degree.

The minimum requirement for application is the grade "good" (3/5, cum laude approbatur or equivalent) for both the applicant's MA studies (major or other relevant field of study) and the MA thesis or equivalent or an applicable higher polytechnic degree with the grade "good" or higher. If the previous studies do not include a thesis or final paper, or its grade is below the level mentioned above, it will be up to the programme board to evaluate whether the applicant can, upon presenting additional proof of scientific merit (e.g. publications, research tasks), be considered qualified to apply. For degrees obtained abroad, the levels of correspondence will be assessed individually.

The most important criterion for selection to doctoral training is a research plan. Application should also include a copy of your diploma and a transcript of academic records. The applicant must state in the application form the target degree and the major subject. The research plan is drafted according to the guidelines provided by the University of Eastern Finland, and it needs to clearly indicate the research question, theoretical background and methods. In particular, the following are evaluated: clarity, innovativeness and viability of the research plan; scientific relevance of the research topic; and its suitability for the research profile of the Doctoral Programme in Social and Cultural Encounters. The plan is approved by the board. Furthermore, acceptance is contingent upon the doctoral programme having sufficient expertise for the supervision of licentiate and doctoral theses.

How to Apply

The application procedure for doctoral studies is described in detail in Chapter 1.5. The doctoral Programme invites applications four times per year. The application deadlines are on the last day of February, April, August and November.

Within 3 months after obtaining the right to pursue postgraduate studies, the student must submit a study plan for the postgraduate studies, accepted by the supervisor, to the amanuensis.

Study requirements

The education and supervision in the doctoral programme provides at its largest seminars and lectures, including an annual thematic Research School, for all postgraduate students accepted into the programme. The most intensive supervision is offered in research groups formed by supervisors. Tuition in the programme is in Finnish and/or English.

Academic studies in the doctoral programme that lead to a Licentiate of Philosophy, Doctor of Philosophy, Licentiate of Social Sciences or Doctor of Social Sciences degree consist of three parts:

1. Transferable skills studies (10–15 ECTS)

- (a) Research Ethics (1 ECTS)
- (b) Other studies (9–14 ECTS)

2. Studies in the discipline and field of science (35–40 ECTS)

Annual Thematic Research School (3–5 ECTS)
Research Seminar in Social and Cultural Encounters (5–7 ECTS)
Subject-Specific Methodological Studies (5–10 ECTS)
Academic Professional Skills (5–10 ECTS)
Specialized studies (5–10 ECTS)

3. Licentiate or Doctoral Thesis

Candidates proceeding directly from a Master's to a Doctoral degree must complete General Postgraduate Studies and Subject-Specific Postgraduate Studies before submitting the doctoral dissertation for pre-examination. No additional studies other than the doctoral dissertation shall be demanded of a candidate with a suitable Licentiate degree.

The form, requirements and evaluation of the licentiate thesis and doctoral dissertation follow the requirements of the faculty in which the degree is completed.

Board of the Doctoral Programme

Director, Prof. Helmi Järviluoma-Mäkelä, , Vice-director Prof. Eeva Jokinen (University Lecturer Silva Tedre), Prof. Erkki Sevänen (Prof. Risto Turunen), Prof. Leena Koski (Prof. Päivi Harinen), Prof. Pekka Kujamäki (Prof. Hannu Kemppanen), Prof. Jopi Nyman (Prof. Maija Könönen), Prof. Jaana Vuori (Prof. Sinikka Vakimo) and postgraduate student representatives MA Anna Kinnunen and M.Soc.Sc. Iiris Lehto

Contact persons: Prof. Risto Turunen (Hum.), Prof. Eeva Jokinen and Prof. Leena Koski (Soc.)

2.2.1.5. Natural Resources, Environment and Society Doctoral Programme

The doctoral programme in Natural Resources, Environment and Society is described in Chapter 2.2.4.6. Doctoral students of the Philosophical Faculty whose research project is related to the themes of the programme can complete their doctoral studies in the Natural Resources, Environment and Society Doctoral Programme.

2.2.1.6 Doctoral Programme in Border and Russian Studies

The doctoral programme in Border and Russian Studies is described in Chapter 2.2.4.10. Doctoral students of the Philosophical Faculty whose research project is related to the themes of the programme can complete their doctoral studies in the Doctoral Programme in Border and Russian Studies.

2.2.1.7 Doctoral Programme in Theology

The Doctoral Programme in Theology at the Philosophical Faculty organises and coordinates doctoral level education in the field of theology at the University of Eastern Finland. The doctoral pro-

gramme offers doctoral students courses organised by the School of Theology, as well as scientific conferences and symposia organised in cooperation with the Finnish Doctoral Programme of Theology (involving the University of Helsinki, the University of Eastern Finland, and Åbo Akademi University), which is part of the *Nordic Network for Doctoral Training in Theology and Religion*.

The Doctoral Programme in Theology provides students with the skills needed to conduct independent scientific research and to participate in the international discussion in the field. The objective is to train experts for demanding academic research and teaching positions, and positions requiring academic expertise within the church, religious communities and elsewhere in society. The doctoral programme is closely linked to the research carried out in the faculty.

The doctoral programme comprises general studies in the discipline, studies in the student's own field of research, transferable skills studies, and the licentiate thesis or the doctoral dissertation. In addition to independent study and research, the doctoral programme also involves intensive working in seminars and groups, as well as participation in national and international conferences, which takes place in collaboration with the supervisors.

Degrees available in the doctoral programme

The application procedure for doctoral studies is described in detail in Chapter 1.5.

The doctoral programme offers the following degrees: Doctor of Theology, Licentiate in Theology, Doctor of Philosophy

The right to pursue the Doctor of Philosophy degree will not be granted to persons who hold a Finnish Master's degree in theology, the Licentiate in Theology degree, or a corresponding degree completed abroad. Instead, these persons are required to complete the Licentiate in and/or Doctor of Theology degree. The right to pursue the Doctor of Theology degree can be granted to persons who hold a Master's degree in some other field, but then complementary studies (60 ECTS) are required in General Theology or Orthodox Theology.

Eligibility for doctoral education and student admission criteria

Eligibility for doctoral education comes from the Finnish legislation, requirements are defined in Chapter 1.4. To be admitted as a student to the Doctoral Programme in Theology, the applicant must have a Master's degree in a field suitable to the programme and completed advanced studies and achieved the grade good or higher in one of the subjects included in the Doctoral Programme in Theology or in an applicable related subject, or the applicant must have completed other studies which correspond to them. The applicant's Master's thesis or corresponding work must have achieved a grade which corresponds to at least *good*, i.e. the grade must be *cum laude approbatur* or higher, or 3/5 or higher.

If the applicant's earlier degree does not include a Master's thesis or a corresponding work or its grade is lower than that mentioned above, the applicant is required to present additional scientific merits to support his or her admission. The sufficiency of the additional merits is assessed by the professor of the subject. The applicant's research proposal and study plan need to obtain the approval and recommendation of the doctoral programme.

A Master's degree completed abroad is accepted as corresponding to a Finnish higher university degree. In countries which have committed to the Bologna Declaration, degrees are accepted as such. Degrees completed in other countries are assessed separately and case-

specifically. The degree must be completed in the field of theology, and it must be completed by the end of the application period. If the degree of a student admitted to the Doctoral Programme in Theology is not completed in the field of theology, the student is required to complete 60 ECTS of complementary basic and intermediate studies in General Theology or Orthodox Theology. They cannot be included in the degree.

The most important admission criterion is the applicant's research proposal, which need to obtain the approval of the doctoral programme. Furthermore, the availability of sufficient expertise within the faculty for the supervision of the applicant's licentiate thesis or doctoral dissertation is a precondition for admission. At least one of the supervisors is required to be a member of staff of the University of Eastern Finland.

The faculty's doctoral education amanuensis will check that the applicant's earlier degree gives him or her eligibility for postgraduate education (as referred to in the Universities Act 558/2009, Section 37). Moreover, the doctoral programme will check the content of the applicant's earlier degree.

How to apply

The application procedure for doctoral studies is described in detail in Chapter 1.5. The doctoral programme invites applications four times per year. The application deadlines are on the last day of February, April, August and November.

The applicant must state in the application form the target degree and the major subject.

Within 3 months after obtaining the right to pursue postgraduate studies, the student must submit a study plan for the postgraduate studies, accepted by the supervisor, to the amanuensis.

Study requirements

The doctoral degree can be completed in four years of full-time study. The degrees comprises the following components:

- Licentiate thesis or
- Doctoral dissertation
- Doctoral studies 50 ECTS
 - Transferable skills studies 10 ECTS
 - Studies in the discipline and field of research 40 ECTS

The postgraduate studies (50 ECTS) comprise the following studies:

A. Transferable skills studies (10 ECTS)

The student is required to complete a minimum of 8 ECTS of the following courses offered by the Doctoral Programme of the University of Eastern Finland:

In addition to Research Ethics (1 ECTS) at least 7 ECTS of the following subjects:

- Orientation to Postgraduate Studies (0 ECTS)
- Conference English (3 ECTS)
- Media Communications for Postgraduate Students (2 ECTS)
- Information Skills for Postgraduate Students (2 ECTS)
- Scientific Writing for Postgraduate Students (2 ECTS)
- Orientation to Postgraduate Studies (0 ECTS)

Transferable skills studies in the field of theology (2 ECTS)

- Presentations in scientific conferences, e.g., symposia organised by the Finnish Doctoral Programme of Theology.
- Academic teaching positions and other expert positions, including the application of academic skills in working life.
- Publishing processes.

B. Studies in the discipline and field of research (40 ECTS)

- Research seminar in the student's field of research (10 ECTS)
- Research methods (5 ECTS)
- Other discipline-specific postgraduate studies and/ or studies in a minor subject supporting the student's postgraduate research (25 ECTS).

A student pursuing a doctoral degree directly after a Master's degree is required to complete the aforementioned studies before submitting his or her doctoral dissertation for preliminary examination. To be awarded a doctoral degree, a student holding an applicable licentiate degree is not required to complete any other studies than the doctoral dissertation.

For the faculty's international students, courses taught in English are organised in accordance with the faculty's principles relating to postgraduate study. The faculty and its schools offer postgraduate courses taught in English on a permanent basis, and English is used in the seminars as necessary.

C. Licentiate thesis and doctoral dissertation

The format, requirements and grading of the licentiate thesis and the doctoral dissertation follow the instructions of the Philosophical Faculty.

Board of the Doctoral Programme

Director, Head of School, Prof. Lauri Thurén, (biblical studies), Vice Director, Prof. Antti Raunio (systematic theology), Prof. Matti Kotiranta (church history), Prof. Serafim Seppälä (systematic theology and patristics), Student member Eveliina Ojala

Contact person for the doctoral programme: Professor Antti Raunio.

2.2.2 Faculty of Science and Forestry

The doctoral programmes and degrees available in the Faculty of Science and Forestry are listed in Chapter 1.3. The admission criteria for the doctoral programmes and the structure of the degrees are described in the following chapters.

Foreign applicants applying to any of the doctoral programmes in the faculty must demonstrate sufficient proficiency in English when submitting their application. The sufficient proficiency can be demonstrated by providing evidence of any of the following:

- PTE (Academic) passed with at least 59 points, or
- TOEFL with PBT passed with at least 580 and writing passed with at least 4/IBT 90 and writing passed with at least 22, or
- IELTS (Academic) with an overall score of at least 6.5 and writing passed with at least 5.5
- the applicant has completed all prior studies in English. If the applicant has completed the prior studies in English, he/she must attach to the application a statement from

- the educational institution indicating that the language of instruction was English; or
- the applicant has completed the English test of the Finnish matriculation examination (IB Diploma or English as A1 language); or
- the applicant has completed primary education in English in Australia, Canada, New Zealand, the United Kingdom or the United States.

2.2.2.1 Doctoral Programme in Aerosol Research

The purpose of the doctoral programme is to educate and train doctoral students in the field of aerosol research. Aerosols are mixtures of fine particles and gases that are released into the atmosphere by various industrial processes, traffic, energy production and also from nature. Topics of courses, seminars and guest lectures include basic theory, processes and properties (physical, chemical, toxicological) of aerosols; their effects on climate, air quality and health; and their practical applications (e.g. energy production and nanomaterial manufacturing). The main research focuses of the participating groups are aerosol effects on climate change and human health. Research, doctoral training and teaching benefits from networks created during previous research schools.

Degrees available in the doctoral programme

The degrees available in the doctoral programme are Doctor of Philosophy and Licentiate of Philosophy.

Eligibility for doctoral degree studies and admission criteria

The eligibility criteria for doctoral degree studies are described in Chapter 1.4. Suitable background education for the doctoral programme is a Master's degree in science, technology/engineering, pharmacy or medicine. In case of foreign students, the suitability of the applicant's degree as background education, supplementary studies required and sufficient linguistic proficiency are evaluated on a case-by-case basis by the management group (see Chapter 2.2.2). When applying for a visa/residence permit, non-EU students must demonstrate that they have adequate means of subsistence for the time they are resident in Finland. Any supplementary studies required are indicated in the decision concerning a student's right to pursue doctoral studies.

How to apply

The application procedure for the right to pursue doctoral studies is described in Chapter 1.5. There are four annual deadlines for submitting one's application. The deadlines during the academic year are 31 Aug, 30 Nov, 28 Feb and 30 April. In addition, all applicants with a suitable background are interviewed by at least two members of the management group. Admission to the doctoral programme does not require funding.

Requirements for a licentiate/doctorate

A licentiate degree or a doctoral degree consists of the following elements:

- A doctoral dissertation or licentiate thesis
- Licentiate/doctoral studies (30 ECTS):
- Transferable skills studies (8 ECTS)
- Studies in the discipline and field of research (22 ECTS)
- The total extent of studies in the Doctoral Programme in Aerosol Research is at least 30 ECTS.

To complete a Doctorate, a doctoral student must

- (1) complete general scientific transferable skills studies of at least 8 ECTS*,
- (2) complete studies in the discipline and field of research 20 ECTS*,
- (3) attend to a research seminar that can be included in studies in point (2) (Research seminar of the programme),
- (4) write a doctoral dissertation and defend it in public.

* the total extent of studies must be at least 30 ECTS*

As aerosol research is multidisciplinary in nature and students in the doctoral programme may have considerably different backgrounds (physics, environmental sciences, toxicology), students are encouraged to choose a wide variety of studies in the fields that support their specific field of research.

Transferable skills studies (at least 8 ECTS):

- Academic and working life skills
- Language and communication studies
- Philosophy of science, research ethics and methodology
- Entrepreneurship and business skills
- Pedagogical studies
- Studies on statistical data analysis methods
- Studies that support the field of research in the doctoral programme

Studies in the discipline and field of research (at least 20 ECTS):

- Studies in the student's specific field of research (at least 15 ECTS) that must be advanced-level studies or higher (completed courses or literature examinations)
- Studies that support the student's own field of research
- Seminars

Intermediate studies:

3710230 Air Quality and Climate	4 ECTS
3710221 Aerosol Science*,***	5 ECTS
3351801 Aerosol Science (online course)*, ***	5 ECTS
*** Only one of the courses must be completed; you can not include both for your degree	
3351802 Statistical Physics 2**	5 ECTS
3351803 Basics in Meteorology**	4 ECTS
3351555 Transport Phenomena	5 ECTS

Advanced studies:

3352701 Aerosol Physics*	5 ECTS
3352702 Atmospheric Chemistry and Physics **	5 ECTS
3352703 Climate Change	5 ECTS
3352704 Aerosol measurement techniques	5 ECTS
3352705 Atmospheric radiation and aerosols	5 ECTS
3352981 Advanced Laboratory Works in Physics	5 ECTS
3352751 Cloud Microphysics	5-10 ECTS
3352985 Practical Training in Physics (M.Sc.)	1-10 ECTS
3353313 Research seminar on Aerosol Research	2 ECTS
3710225 Emissions from Energy Production and Industry	5 ECTS
3710444 Chemistry and Physics of Combustion and Emissions	5 ECTS
3710502 Working Course for Aerosol Techniques	5 ECTS
3352571 Biomaterials	5 ECTS

3352572 Material Techniques	5 ECTS
3352573 Characterization of Materials	5 ECTS
3352574 Nanoparticle Technology	5 ECTS
3710402 Advanced Occupational Hygiene	3 ECTS
3710442 Health Effects of Air Pollutants	6 ECTS
3710435 Exposure Assessment	3 ECTS
3710436 Exposure Measurements	4-6 ECTS
3710437 Modeling in Exposure Assessment	3 ECTS
4422402 Epidemiology I	2 ECTS
3710429 Environmental Health Risk Assessment	4 ECTS
3710412 Risk Assessment	5 ECTS
3710434 Environmental Cell Biology	5 ECTS
3710441 Measurements and Risk Assessment of Indoor and Occupational Hygiene	5 ECTS
4219507 Occupational Toxicology	3 ECTS
4219208 Organ Toxicology	6 ECTS
4219502 Immunotoxicology	3 ECTS

Management group of the doctoral programme

Director of the doctoral programme, Professor Kari Lehtinen; Professor Maija-Riitta Hirvonen; Professor Jorma Jokiniemi; Associate Professor Annele Virtanen; Coordinator Santtu Mikkonen; up to two student members.

2.2.2.2 Doctoral Programme in Photonics

A four-year doctoral programme in photonics is provided entirely in English by the University of Eastern Finland. The programme provides students with excellent skills to pursue an international career in optics, photonics or other related fields. The photonics industry has a key role in many fields such as information and communications technology, lighting, manufacturing, image analysis, security, defence, space technology, biosciences and medicine. Companies in the industry have a high demand for skilled experts. The Doctoral Programme in Photonics is intended for students with a Master's degree or equivalent in optics, photonics or other relevant field. Programme web-page: <http://www.uef.fi/en/photonics/phd-programme-in-photonics>.

Degrees available in the doctoral programme

The degrees available in the doctoral programme are Doctor of Philosophy and Licentiate of Philosophy.

Eligibility for doctoral degree studies and admission criteria

The eligibility criteria for doctoral degree studies are described in Chapter 1.4. Applicants eligible for the doctoral programme in photonics must have the following:

1. A Master's degree or equivalent in physics, optics, photonics, engineering or other field relevant to the programme that requires adequate knowledge in physics and mathematics.
2. Sufficient proficiency in English described in Chapter 2.2.2.

The most important admission criteria are:

- Relevancy of previous studies and the applicant's performance in previous studies
- Suitability of research plan for the purposes of the department
- Sufficient proficiency in English.

If conditions 1 and 2 above are met, the suitability of the applicant to pursue doctoral studies will be evaluated and scores awarded to the applications according to the following criteria:

1. Relevancy of previous studies to the field of photonics: from 0 to 5 points (0 = poor, 5 = excellent)
2. The applicant's general performance in previous studies: from 0 to 5 points (0 = poor, 5 = excellent)
3. The applicant's performance in studies in a relevant field: from 0 to 5 points (0 = poor, 5 = excellent)
4. The applicant's research plan and motivation to pursue doctoral studies: from 0 to 5 points (0 = poor, 5 = excellent)

Statements by referees are taken into account in evaluation and complement the evidence in point (4), but no additional scores are awarded for the statements. Scores to the applications are awarded by an evaluation panel.

How to apply

The application procedure for the right to pursue doctoral studies is described in Chapter 1.5. There are two annual deadlines for submitting one's application. Deadlines during the academic year are 30 Nov and 30 April.

Requirements for a licentiate/doctorate

A doctoral degree or licentiate degree consists of the following elements:

- A doctoral dissertation or licentiate thesis
- - Doctoral/ Licentiate studies (total 30 ECTS):
 - Transferable skills studies (10 ECTS)
 - Studies in the discipline and field of research (20 ECTS)

Studies in the discipline and field of research, 20 ECTS, containing at least the following mandatory parts:

- Post Graduate Seminar in Photonics (PhD student seminar series, 4 ECTS)
- Participation in at least two Summer Schools, at least one of them abroad (2 to 5 ECTS each)
- Studies in the discipline and field of research contain advanced-level courses in photonics that support the student's field of research. Available courses are listed below. Courses that have already been included in previous degrees cannot be included in the licentiate/doctorate.

Studies in the discipline and field of science courses:

	ECTS
Advanced Biomedical Optics	4
Optical Metrology and Fabrication	4
Commercializing high-tech, like photonics	4
Lighting and Displays	4

Transferable skills studies, 10 ECTS.:

Transferable skills studies consist of General scientific postgraduate courses, offered by the University of Eastern Finland to all doctoral students and/or advanced level courses that support the photonics studies. Also these study courses have to be listed in the postgraduate study plan. Mandatory course is:

- Research Ethics (1 ECTS)

International student exchange; during studies at least two months in a foreign university, research institute, or company.

Scientific research, that will be collected into the PhD thesis or licentiate thesis at the end. Requirements for licentiate thesis and doctoral dissertation are described in section 2.3.2.

Management group of the doctoral programme

Director of the doctoral programme, Professor Pasi Vahimaa; Professor Seppo Honkanen; Professor Jyrki Saarinen; Associate Professor Jani Tervo; Coordinator Noora Heikkilä; one or two student members. Stakeholder representatives: Veli-Pekka Leppänen, CEO, Nanocomp Oy; Juha Purmonen, Development Manager, Joensuu Science Park Ltd.; Birgit Päivänranta, CS Application Engineer, ASML Holding.

2.2.2.3 East Finland Doctoral Programme in Computer Science and Engineering

The East Finland Doctoral Programme in Computer Science and Engineering (ECSE) covers all doctoral studies in computer science and engineering in the University of Eastern Finland.

The doctoral programme provides students with technological know-how and advanced skills for research, development and project management in the field of information technology. Scientific research is an essential part of the studies, and it will be conducted in a research group focusing on software engineering, technologies for education and development or intelligent media computing.

The fields of the study are relevant to information technology, and the graduates are expected to work in the IT industry. Typical skills that require special expertise are related to data mining, pattern recognition, media computing, education and development technologies and software engineering.

The doctoral programme collaborates closely with Lappeenranta University of Technology, the IMPDET-LE network, and the Department of Education and Psychology.

Degrees available in the doctoral programme

The degrees available in the doctoral programme are Licentiate of Philosophy and Doctor of Philosophy.

Eligibility for doctoral degree studies and admission criteria

The eligibility criteria for doctoral degree studies are described in Chapter 1.4.

To be admitted to pursue doctoral studies, an applicant must have

1. A Master's degree (or equivalent) in the field of computer science, electrical engineering or applied mathematics.
2. An appointed supervisor within the ECSE programme.
3. An average level of grades obtained in previous studies of at least 3/5 (Finnish universities).
4. In addition, foreign applicants must demonstrate sufficient proficiency in English (see Chapter 2.2.2).

How to apply

The application procedure for the right to pursue doctoral studies is described in Chapter 1.5. There are four annual deadlines for submitting one's application. The deadlines during the academic year are 31 Aug, 30 Nov, 28 Feb and 30 April.

Requirements for a licentiate/doctorate

A licentiate degree or a doctorate consists of the following elements:

- A doctoral dissertation or licentiate thesis
- Licentiate/doctoral studies that consist of the following elements:
 - Transferable skills studies (between 4 and 10 ECTS; the following are recommended)
 - Scientific writing (or equivalent)
 - Scientific presentational skills (or equivalent)
 - Studies in the discipline and field of research (between 20 and 26 ECTS; the following are recommended)
 - Research seminar
 - Courses that support the student's field of research

Studies in the discipline and field of research:

Code	Course title	ECTS
3621511	Design and analysis of algorithms	6
3621595	Big data and cloud computing	5
3621556	Biosequence algorithms	6
3621557	Digital speech processing	6
3621517	Pattern recognition	5
3621586	Advanced course in human-computer interaction	5
3621584	Innovative collaboration for development	3
3621545	IT service management	5
3621587	Eye tracking	5
3621519	Advanced databases	5
3621599	Advanced data analytics - ecosystems (advanced)	5
3621589	Advanced data analytics - orientation	5
3621590	Advanced data analytics - methods	5
3621596	Advanced data analytics - interpretation	5
3621521	Technologies for development and education	5
3621543	ICT for development	5
3621551	Research methods in cognitive phenomena	5
3621518	Machine vision	5
3621538	Learning laboratory at school	5
3621554	Image analysis and processing	6
3621549	Usability engineering	5
3621533	User centered design	5

3621562	Basics of qualitative research	5
3621534	Wireless communication	5
3621520	Computational color	5
3621553	Computational intelligence II	5
3621598	Natural User Interfaces	5
3621570	Medical image analysis	5
3621546	Mental representations in IT education	5
3621523	State-of-art technologies in education	5
3621516	Software architectures and design patterns	5
3621548	Software metrics	5
3621558	Software design	5
3621529	Software process management	5
3621512	Software engineering	6
3621524	Empirical studies of programming	5
3621527	Cognitive theories in learning programming	5
3621539	Creative problem management	5
3621522	Study log	5
3621542	Design methods in educational technology	5
3621541	Implementation technologies for learning environments	5
3621547	Location-aware mobile applications development	5
3621514	Design of spatial information systems	5
3621585	Advanced topics on project management	5
3621532	Project management laboratory	5
3621564	Speech technology workshop	5 - 8
3621530	Structured-document processing languages	5
3621528	Parallel computing	5
3621550	Seminar in parallel programming	3 to 5
3621712	Research seminar on clustering	1 - 5
3621552	Clustering methods	5
3621560	Oral presentation seminar	5
3621540	ICT ethics	5
3621544	The philosophy of computer science	5
3621513	Research methods in computer science	6
3621531	Testing software systems	5
3621561	Research methods in information systems	5
3621559	Database management systems	2
3621526	Data security	5
3621515	Requirements engineering and modeling	5
3621537	Practicum in online teaching	5
3621569	Web Data Management	5
3621525	Seminar on computational intelligence	2

Management group of the doctoral programme

Director of the doctoral programme, Professor Pasi Fränti; Professor Markku Tukiainen (education and development technologies); Professor Jarmo Ahonen (software engineering); Professor Pekka Toivanen (intelligent media computing); one or two student members.

2.2.2.4 Doctoral Programme of Educational Sciences in Interdisciplinary Context

The doctoral programme is described in Chapter 2.2.1.2. The Doctoral Programme of Educational Sciences in Interdisciplinary Context is also open to doctoral students in Faculty of Science and Forestry, if the theme of their licentiate thesis or doctoral dissertation is related to the research field of the doctoral programme.

2.2.2.5 Doctoral Programme in Chemistry

The Doctoral Programme in Chemistry is a doctoral education organisation within the Department of Chemistry in which all doctoral students of the Department of Chemistry belong. Doctoral students in the Doctoral Programme in Chemistry complete their studies and research projects in research groups conducting internationally high-standard research. The most important fields of research include mass spectrometry, protein crystallography, molecular modelling, nanochemistry, catalysis research, polymers, composites and structural research.

During their studies, students obtain in-depth knowledge in their own field of research, its research methods and development. The purpose of the doctoral programme is to provide students with competencies to create new knowledge, apply methods of scientific research critically and work in demanding expert and research positions in the field of chemistry in academia, business and public sector.

Degrees available in the doctoral programme

The degrees available in the doctoral programme are Licentiate of Philosophy and Doctor of Philosophy.

Eligibility for doctoral degree studies and admission criteria

The eligibility criteria for doctoral degree studies are described in Chapter 1.4. Students eligible for studies in the Doctoral Programme in Chemistry have obtained a Master's degree in chemistry in Finland or abroad. Students in the Doctoral Programme in Chemistry may be required to complete supplementary studies of no more than 60 ECTS to acquire the competencies necessary for participating in the programme. Such supplementary studies cannot be included in the degree of Licentiate of Philosophy or Doctor of Philosophy.

Applicants with a degree from a foreign university are also required to demonstrate their sufficient linguistic proficiency. To allow their linguistic proficiency to be verified, applicants must provide evidence of an approved language test described in Chapter 2.2.2. When applying for a visa/residence permit, non-EU doctoral students must demonstrate that they have adequate means of subsistence for the time they are resident in Finland as well as appropriate insurance cover.

The most important admission criteria for doctoral studies are the student's performance in previous studies, research plan and doctoral study plan as well as statements by referees.

How to apply

The application procedure for the right to pursue doctoral studies is described in Chapter 1.5. There are four annual deadlines for submitting one's application. Application deadlines during the academic year are 31 Aug, 30 Nov, 28 Feb and 31 May.

Applicants shall supplement their applications for the right to pursue doctoral studies with a research plan. There is no standard form for the research plan.

Requirements for a licentiate/doctorate

A doctoral degree or a licentiate degree consists of the following elements:

- A doctoral dissertation or licentiate thesis
- Doctoral/ Licentiate studies (30 ECTS in total):
 - Transferable skills studies (8 ECTS)
 - Studies in the discipline and field of research (20 ECTS)
 - Postgraduate seminar (2 ECTS)

Transferable Skills studies (at least 8 ECTS):

The student is required to complete at least 8 ECTS of courses offered by the Doctoral School of the University of Eastern Finland.

Studies in the discipline and field of research (at least 20 ECTS):

Special courses		ECTS
Physical Methods in Inorganic Chemistry	3410302	4
Organometallic Chemistry	3410303	4
Chemistry of Non-metals	3410304	4
Theoretical Inorganic Chemistry	3410360	4
Theoretical Chemistry	3410305	4
Molecular Modelling	3410307	4
Surface Chemistry	3410308	4
Kinetics	3410309	4
Principles of Materials Chemistry	3410310	4
Special Materials	3410311	4
Catalytic Materials	3410312	4
Polymer Chemistry	3410313	4
Theoretical Organic Chemistry	3410314	4
Structure of Proteins	3410315	4
Basic Principles of Mass Spectrometry	3410316	4
Supramolecular Chemistry	3410318	4
Advanced Laboratory Techniques		
Practical Molecular Modelling	3410333	3
NMR spectroscopy	3410334	3
X-Ray Diffraction	3410335	3
Characterization methods for Polymers	3410336	3
FT-IR spectroscopy	3410337	3
Practical methods of organometallic chemistry	3410363	3
Biological Mass Spectrometry	3410317	3

Postgraduate Seminar

Postgraduate Seminar

3410411

2

Examinations

Examinations in Inorganic Chemistry	3410401
Examinations in Physical Chemistry	3410402
Examinations in Materials Chemistry	3410403
Examinations in Organic Chemistry	3410404

It is also possible to include in the doctoral degree and the licentiate degree advanced-level courses provided by other departments, doctoral programmes and universities as long as they support one's major subject studies and the research project. The main supervisor assesses the relevancy of a completed course from the perspective of studies as a whole.

Management group of the doctoral programme

Director of the doctoral programme, Professor Tapani Pakkanen (physical chemistry); Professor Juha Rouvinen (protein chemistry); Professor Tuula Pakkanen (material chemistry); Professor Janne Jänis (organic chemistry); Associate Professor Igor Koshevoy (inorganic chemistry); one or two student members.

2.2.2.6 Doctoral Programme in Natural Resources, Environment and Society

The Doctoral Programme in Natural Resources, Environment and Society is described in Chapter 2.2.4.6. The Doctoral Programme is also open to doctoral students in Faculty of Science and Forestry, if the theme of their doctoral dissertation or licentiate thesis is related to the research field of the doctoral programme.

2.2.2.7 Doctoral Programme in Medical Physics and Engineering

Medical physics and engineering is an inter- and multidisciplinary research field that combines scientific, technical and medical research and education. The needs for interdisciplinary skills are emphasised in modern academic research and development activities, in hospitals, in industries and in business in several different sectors.

In the doctoral programme, education and research concentrate on medical imaging, biosignal analysis and the biomechanics of biological tissues. Other key research areas are physiological and biomechanical modelling, nanotechnological development of biomaterials, their modification and physio-chemical characterisation. The doctoral programme creates a continuum of research from basic research in natural sciences to applications in clinical medicine. The development of new physical diagnostics and therapeutic methods has a key role in the programme. Another aim is to develop innovative and cost-effective instruments and materials for the needs of the health care system. Research and development activities are supported by the infrastructure of the university and hospital, providing excellent opportunities to validate new technologies in a clinical testing environment.

The doctoral programme in medical physics and engineering is a joint doctoral programme by the Faculties of Science and Forestry and Health Sciences. Its purpose is to train Doctors of Philosophy and Doctors of Medicine or Dental Science with comprehensive understanding and skills for the needs of academia, administration and the business community.

Degrees available in the doctoral programme

The degrees available in the doctoral programme are Licentiate of Philosophy, Doctor of Philosophy, Doctor of Medicine and Doctor of Dental Science.

Eligibility for doctoral degree studies and admission criteria

The eligibility criteria for doctoral degree studies are described in Chapter 1.4. Applicants are expected to have a suitable academic qualification (Master of Science, Licentiate of Medicine, Licentiate of Dentistry or a corresponding foreign degree). An eligible qualification may be a degree in physics, material sciences, medicine, dental science, mathematics, information sciences or in another related area of science. After consulting the supervisors of the doctoral degree studies, the management group decides whether the applicant's qualification is suitable for the doctoral programme. If the qualification does not correspond to the fields of research in the doctoral programme, the management group has the right to require the student to complete supplementary studies (up to 20 ECTS).

Students are selected for the doctoral programme on the basis of applications and possibly an interview. Foreign students are also required to have sufficient proficiency in English; see Chapter 2.2.2.

How to apply

The application procedure for the right to pursue doctoral studies is described in Chapter 1.5. There are four annual deadlines for submitting one's application. Application deadlines during the academic year are 31 Aug, 30 Nov, 28 Feb and 30 April. The application should include a research plan prepared according to the faculty's instructions and a curriculum vitae.

Requirements for a doctorate/ licentiate

Doctor of Philosophy and Licentiate of Philosophy: Studies of 30 ECTS (of which transferable skills studies account for between 8 and 10 ECTS and studies in the discipline and field of research for between 20 and 22 ECTS) and an approved licentiate thesis or doctoral dissertation.

Doctor of Dental Science and Doctor of Medicine: Studies of 30 ECTS (of which transferable skills studies account for between 5 and 15 ECTS and studies in the discipline and field of research for between 15 and 25 ECTS) and an approved doctoral dissertation.

It is recommended that general transferable skills studies should mainly comprise of the courses provided by the University of Eastern Finland. Descriptions of courses can be found in the Study Guide and the University website.

The doctoral study plan shall be prepared in cooperation with supervisors of the doctoral dissertation. Courses included in the plan shall be selected from intermediate- and advanced-level courses in the student's specific field of research. For students completing the degree of Doctor of Medicine or Doctor of Dental Science, studies consist of courses in the student's specific field of research and supporting fields. Below is a list of recommended studies in the discipline and field of research.

Studies in the discipline and field of research :

3352571 Biomaterials, 5 ECTS
3352575 Biomechanics, 5 ECTS
3352573 Characterization of Materials, 5 ECTS
3351552 Data Analysis, 5 ECTS
3356509 Differential Equations a, 4-5 ECTS
3356510 Differential Equations b, 4 ECTS
3352541 Digital Image Processing, 5 ECTS
3352610 Estimation Theory, 5 ECTS
3352603 Finite Element Methods, 5 ECTS
3356503 Fourier Analysis, 6 ECTS
3352612 Image Analysis, 5 ECTS
3352604 Inverse Problems, 5 ECTS
3352577 X-ray powder diffraction, 5 ECTS
3352607 Light interaction with matter, 5 ECTS
3352545 Magnetic Resonance Imaging, 5 ECTS
3352572 Material techniques, 5 ECTS
3352576 Medical Approval Process, 5 ECTS
3352543 Medical Signal Analysis, 5 ECTS
3351554 Modelling I.5 ECTS
3352574 Nanoparticle technology, 5 ECTS
3352503 Nuclear Medicine Physics, 5 ECTS
3356504 Numerical methods, 5 ECTS
3352601 Optimization, 5 ECTS
3356512 Partial Differential Equations, 5 ECTS
3352615 Physical Acoustics, 5 ECTS
3352501 Physics in Clinical Radiology, 5 ECTS
3352502 Physics in Radiotherapy, 5 ECTS
3353311 Research seminars on Medical Physics and Technology, 2 ECTS
3351703 Scientific Computing, 4 ECTS
3352542 Signal Analysis, 5 ECTS
3351555 Transport Phenomena, 5 ECTS
3352609 Statistical Inverse Problems, 5 ECTS
3352611 Time Series Analysis, 5 ECTS
3352544 Ultrasound Techniques in Medicine, 5 ECTS
4487104 In vitro and in vivo imaging, 4 ECTS
4138120 Book Exam, Biomedical NMR, 1-8 ECTS
4138102 Biomedical NMR Research Seminars, 2-4 ECTS
4138112 MRI Workshops, 1-3 ECTS
4138113 Optical Imaging Workshops, 1-3 ECTS

Management group of the doctoral programme

Director of the doctoral programme, Professor Vesa-Pekka Lehto (Department of Applied Physics); Professor Pasi Karjalainen (Department of Applied Physics); Professor Juha Töyräs (Department of Applied Physics); Professor Olli Gröhn (A.I. Virtanen Institute); Professor Heikki Kröger (School of Medicine); Senior Researcher Mika Tarvainen (secretary).

2.2.2.8 Doctoral Programme in Mathematical Analysis and Scientific Computing

The need for and relevancy of mathematical analysis and its applied science, scientific computing, have increased substantially over the last few years. Experts in mathematics and scientific computing are needed both in the academic research environment and in the service of industries and the business community in several different sectors. Mathematical analysis is an essential part of mathematical basic research, while scientific computing applies and develops new methods for the needs of different areas. In this Doctoral Programme, mathematical analysis concentrates particularly in complex analysis, differential equations and partial differential equations as well as their applications in different branches of mathematics. In scientific computing, the main emphasis is on calculation methods related to inverse problems as well as on the research of the associated mathematical models and different applications.

The Doctoral Programme in Mathematical Analysis and Scientific Computing is a joint doctoral programme of two departments training doctors with independent research skills in mathematical analysis (Joensuu campus) and scientific computing (Kuopio campus) for the needs of academia, public administration and the business community.

Degrees available in the doctoral programme

The degrees available in the doctoral programme are Licentiate of Philosophy and Doctor of Philosophy.

Eligibility for doctoral degree studies and admission criteria

The eligibility criteria for doctoral degree studies are described in Chapter 1.4. Applicants are expected to have a suitable academic qualification (Master of Science or a corresponding foreign degree, such as MSc). An eligible qualification may be a degree in mathematics, physics, computer science, information sciences or in another related area of science. After consulting the supervisors of the doctoral degree studies, the management group decides whether the applicant's qualification is suitable for the doctoral programme. If the student's qualification does not correspond to the fields of research in the doctoral programme (mathematical analysis, particularly complex analysis, differential equations and partial differential equations; or scientific computing, particularly inverse problems and mathematical modelling), the management group has the right to require the student to complete supplementary studies (up to 20 ECTS).

Foreign students are also required to have sufficient proficiency in English; see Chapter 2.2.2. Students are selected for the doctoral programme on the basis of their applications and possibly an interview.

How to apply

The application procedure for the right to pursue doctoral studies is described in Chapter 1.5. There are four annual deadlines for submitting one's application. Application deadlines during the academic year are 31 Aug, 30 Nov, 28 Feb and 30 April. The application should also include a research plan prepared according to the faculty's instructions and a curriculum vitae.

Requirements for a licentiate/doctorate

A licentiate degree or a doctoral degree consists of the following elements:

- A doctoral dissertation or licentiate thesis
- Licentiate/Doctoral studies (in total 30 ECTS):
 - Transferable skills studies (from 8 to 10 ECTS)
 - Studies in the discipline and field of research (from 20 to 22 ECTS)

The doctoral study plan shall be prepared in cooperation with supervisors of the doctoral dissertation. Courses included in the plan shall be selected from intermediate- and advanced-level courses in the student's specific field of research. Below is a list of recommended studies in the discipline and field of research.

Studies in the discipline and field of research:

Lectured in Joensuu, especially in the field of Mathematical analysis:

3318217 Ahlfors Theory (2-10 ECTS)
3318218 Bergman Spaces (2-10 ECTS)
3318219 Blaschke Products (2-10 ECTS)
3318220 Bloch Spaces and Normal Functions (2-10 ECTS)
3318226 Complex Difference Equations (2-10 ECTS)
3318227 Complex Differential Equations (2-10 ECTS)
3318214 Entire Functions (8 ECTS)
3318236 Functional Analysis (8 ECTS)
3318222 Graduate Course in Functional Analysis (2-10 ECTS)
3318223 Hardy Spaces (2-10 ECTS)
3318225 Holomorphic Curves in a Projective Space (2-10 ECTS)
3318228 Lacunary Series (2-10 ECTS)
3318215 Nevanlinna Theory (4 ECTS)
3318221 Nonlinear Potential Theory (2-10 ECTS)
3318229 Normal Families of Meromorphic Functions (2-10 ECTS)
3318232 Operator Theory in Function Spaces (2-10 ECTS)
3318233 p-adic Analysis (2-10 ECTS)
3318231 PDE, Variational Methods and Sobolev Spaces (2-10 ECTS)
3318224 Reproducing Kernels of Hilbert Spaces (2-10 ECTS)
3318412 Research Seminar in Mathematics (2-8 ECTS)
3318216 Riemann Mapping Theorem and the Dirichlet Problem (8 ECTS)
3318213 Special Course on Complex Analysis (4 ECTS)
3318230 Subharmonic Functions (2-10 ECTS)
3318235 Summer School in Mathematical Analysis (2-4 ECTS)
3318234 Univalent Functions (2-10 ECTS)

Lectured in Kuopio, especially in the field of Scientific computing:

3353312 Research Seminar on Computational Physics (2 ECTS)
3356504 Numerical methods (5 ECTS)
3356512 Partial Differential Equations (5 ECTS)
3352603 Finite Element Methods (5 ECTS)
3352604 Inverse Problems (5 ECTS)
3352601 Optimization (5 ECTS)
3352609 Statistical Inverse Problems (5 ECTS)
3350552 Data Analysis (5 ECTS)
3356507 Probability Theory a (4 ECTS)

3356508 Probability Theory b (4 ECTS)
3352610 Estimation Theory (5 ECTS)
3352611 Time Series Analysis (5 ECTS)
3352542 Signal Analysis (5 ECTS)
3352541 Digital Image Processing (5 ECTS)
3352612 Image Analysis (5 ECTS)
3352615 Physical Acoustics (5 ECTS)
3351555 Transport Phenomena (5 ECTS)

Online courses in mathematical modeling (in Finnish):

3317394 Soft Computing, 4 ECTS
3317392 Modelling and Optimization, 4 ECTS
3317393 Partial Differential Equations in Mathematical Modelling, 4 ECTS
3317396 Stochastic Models, 4 ECTS
3317395 Statistical Models, 4 ECTS
3317397 Continuum Models, 4 ECTS

Transferable skills studies should principally include courses provided by the University of Eastern Finland. Descriptions of courses can be found in the Study Guide and the University website.

Management group of the doctoral programme

Director of the doctoral programme, Professor Marko Vauhkonen; Associate Professor Ville Kolehmainen; Professor Risto Korhonen; Associate Professor Jouni Rättä; one or two student members.

2.2.2.9 Doctoral Programme in Forest Sciences

In the Doctoral Programme in Forest Sciences, doctoral students complete systematic, in-depth studies and pursue their own research projects to familiarise themselves with the methods and practices of scientific research in the field of forest sciences.

The Doctoral Programme in Forest Sciences covers all branches of forest sciences. Forest sciences are closely linked to sciences such as biology, environmental sciences, physics, chemistry, statistics, economics, social sciences and engineering. The Doctoral Programme provides students with an opportunity to develop and apply different research methods in issues related to forests and the renewable resources provided by them.

Students are trained to pursue research projects under supervision. Each student in the Doctoral Programme has at least one personal supervisor for his/her doctoral studies and research project. Working in research teams with several other doctoral students and supervisors supports effective, high-standard doctoral training.

The purpose of doctoral education is to provide students with internationally high-standard expertise and the ability to plan and carry out independently high-quality scientific research projects. After completing the doctoral degree, students are prepared to accept demanding research and expert tasks in forest sciences both in Finland and abroad.

Students in the Doctoral Programme in Forest Sciences represent several different nationalities, and the principal working language is English.

Degrees available in the doctoral programme

The degrees available in the doctoral programme are Doctor of Science (Agriculture and Forestry) and Licentiate of Science (Agriculture and Forestry) with Forest Sciences as the major subject and Doctor of Philosophy with Forest Sciences as the major subject.

Eligibility for doctoral degree studies and admission criteria

The eligibility criteria for doctoral degree studies are described in Chapter 1.4. Applicants to the Doctoral Programme in Forest Sciences must have (1) a suitable background education. In addition, applicants shall have a (2) study plan and a research plan and (3) adequate basic knowledge to support doctoral degree studies. Another requirement is that when applying to the doctoral programme, applicants should be able to name (4) a supervisor/supervisors for their research project. At least one of the supervisors should be a professor working as a teacher in the School of Forest Sciences or an university researcher with a docent's qualification.

Eligible students in the Doctoral Programme in Forest Sciences have completed a suitable Finnish or foreign basic degree that provides adequate basic knowledge and methodological skills for completing a doctorate or a licentiate in the field of Forest Sciences. The requirements concerning the contents and scope of basic degrees are similar for Finnish and foreign degrees. A Master's degree can have been obtained in any suitable field. In addition, sufficient proficiency in English is required (see Chapter 2.2.2). When applying for a visa/residence permit, non-EU doctoral students must demonstrate that they have adequate means of subsistence for the time they are resident in Finland as well as appropriate insurance cover.

Eligible students in the Doctoral Programme in Forest Sciences have

1. completed a Master's degree or an equivalent foreign degree in the field of agriculture and forestry, or
2. completed another Finnish or foreign degree equal to a Master's degree and are able to demonstrate adequate basic knowledge and methodological skills for pursuing the studies, or
3. completed a suitable professional Master's degree in a university of applied sciences and are able to demonstrate adequate basic knowledge and methodological skills for pursuing the doctoral programme or
4. an applicable education completed abroad which in the awarding country gives eligibility for corresponding higher education

In points 2, 3 and 4, the suitability of the content of the previous degree as well as the adequacy of basic knowledge and methodological skills shall be verified and approved by both the supervising teacher of the School of Forest Sciences and the director or the management group of the doctoral programme.

An applicant may be admitted to the doctoral programme only if the proposed doctoral dissertation or licentiate thesis is relevant to the theme of the doctoral programme and if the application is recommended by a supervisor who belongs to the teaching staff of the School of Forest Sciences and agrees to act as a supervisor for the research project detailed in the research plan. Arrangements for supervising research projects should be agreed on well in advance and directly with teachers.

How to apply

The application procedure for the right to pursue doctoral studies is described in Chapter 1.5. Further information is available on the web pages of the programme at: <http://www.uef.fi/en/metsa/hae-opiskelijaksi-tohtorohjelmaan>

Foreign students are also required to have sufficient proficiency in English; see Chapter 2.2.2. There are four annual deadlines for submitting one's application to the doctoral programme. Application deadlines during the academic year are 31 Aug, 30 Nov, 28 Feb and 30 April.

The application should be accompanied by a research plan drafted in English and signed by the prospective student and the supervisors. A funding plan should also be included in the research plan. A personal study plan must be submitted to the Faculty within 3 months after the study right has been granted. A form for study plan is available at the programme web pages.

The application should also be accompanied by a signed supervising agreement on the template prepared for this purpose by the doctoral programme. The supervising agreement will be enacted if the applicant is admitted to pursue studies in the doctoral programme.

Requirements for a licentiate/doctorate

A licentiate degree or a doctorate consists of the following elements:

- A doctoral dissertation or licentiate thesis
- Doctoral / Licentiate studies (40 ECTS in total):
 - Transferable skills studies (8 ECTS)
 - Studies in the discipline and field of research (32 ECTS)

In addition to licentiate/doctoral studies, students may, if necessary, be required to complete supplementary studies. Further instructions are provided in the admission criteria for the Doctoral Programme.

Supplementary studies

In addition to doctoral studies (40 ECTS), students may be required to complete supplementary studies. The maximum scope of required supplementary studies is 60 ECTS, depending on the student's earlier qualifications and other basic knowledge and methodological skills for pursuing the doctoral programme. The purpose of supplementary studies is to provide students with adequate skills for completing a doctoral dissertation or a licentiate thesis in the field of Forest Sciences. Supplementary studies are listed separately in an attachment to the doctoral study plan. The supplementary studies plan should be recommended by the teacher of the School of Forest Sciences who is supervising the doctoral student.

Recognition and validation of prior learning (RPL) in doctoral studies

The Doctoral Programme in Forest Sciences applies the recognition and validation of prior learning (RPL). Only (1) advanced-level courses completed in a Finnish or a foreign university or (2) skills and abilities acquired in scientific research projects may be recognised as RPL units and included in the Doctoral Programme studies. RPL units can be approved as either subject-related doctoral studies or transferable skills studies. RPL units can also be approved as supplementary studies. However, earlier studies already included in the applicant's previous degree cannot be approved as RPL units. Any approved RPL units are listed in the doctoral study plan. The teacher of the School of Forest Sciences who supervises the doctoral dissertation or licentiate thesis project also approves the RPL units that can be counted towards the doctoral studies.

Transferable skills studies (8 ECTS)

General transferable skills studies should include studies in (1) ethics of science and (2) management of a research project. They may also include other general transferable skills studies provided by the University of Eastern Finland's Doctoral School, such as studies in scientific communication and immaterial property rights. Descriptions of the courses provided each year (including Research Ethics and Management of a Research Project) can be found in the curriculum of the University of Eastern Finland's Doctoral School.

Studies in the discipline and field of research (32 ECTS)

In principle, subject-related doctoral studies can be selected freely, but they should support the student's doctoral dissertation or licentiate thesis project. They should also include participation in a research seminar or an international scientific conference in the field (2 ECTS), where the student holds a presentation, prepared in English, on the topic of his/her doctoral dissertation or licentiate thesis project or its part. The Doctoral Programme in Forest Sciences arranges an annual research seminar (3514001 Research Seminar, Forest Sciences, 2 ECTS) in which students are provided an opportunity to present the research project related to their doctoral dissertations or licentiate theses.

Optional forms of study that can be included in the subject-related doctoral studies are the following:

- Completing the courses in the theory of science and methodology, the associated lectures and exercises.
- Reviewing scientific research and methodology related to the topic of the doctoral dissertation or licentiate thesis and preparing written summaries for the supervisor or sitting examinations on key works.
- Preparing advanced-level courses related to the topic of the doctoral dissertation or licentiate thesis and teaching them.

In addition to courses provided by the University of Eastern Finland, corresponding courses arranged by other Finnish and foreign universities and institutes of higher education can be approved as transferable skills studies or subject-related doctoral studies. Other courses suitable for doctoral studies are provided, for example, by the Nordic university network NOVA, see <http://www.nova-university.org/>.

Management group of the doctoral programme

Director of the doctoral programme, Professor Jari Kouki (forest ecology); Professor Petri Kärenlampi (wood technology); Professor Matti Maltamo (forest mensuration); University Researcher Jukka Malinen (forest technology); Professor Ari Pappinen (forest pathology and protection); Professor Heli Peltola (silviculture); Professor Timo Pukkala (forest management planning); Professor Jouni Pykäläinen (forest economy and policy); Professor Timo Tokola (forest information systems); Professor Eeva-Stiina Tuittila (forest soil science); one or two student members. Stakeholder representatives: Professor Pasi Puttonen (University of Helsinki); Taneli Kolström, Research Director, Finnish Forest Research Institute.

2.2.2.10 Doctoral Programme in Biology of Environmental Change

The Doctoral Programme in Biology of Environmental Change is part of the University of Eastern Finland's Doctoral School. It represents a scientific field that takes a wide-ranging approach to environment and environmental change and embraces the research of biological,

ecological and evolutionary processes as well as core environmental research, including ecotoxicology. Potential subjects of research include atmosphere and terrestrial and/or aquatic environments. The purpose of the programme is to provide skills for working as a researcher and a versatile expert in different areas of environmental change both in Finland and abroad. The doctoral programme provides skills for information retrieval, processing and analysing information, data and research materials, publication of information, communication and project management and enables students to solve research problems and use the key methods in their specific field.

Degrees available in the doctoral programme

The degrees available in the Doctoral Programme in Biology of Environmental Change are Doctor of Philosophy and Licentiate of Philosophy with either biology or environmental sciences as major subject.

Eligibility for doctoral degree studies and admission criteria

The eligibility criteria for doctoral degree studies are described in Chapter 1.4. An eligible applicant has a Master's degree (Master of Science) or a corresponding foreign degree. A suitable degree may also be a professional Master's degree obtained from a University of Applied Sciences on a suitable subject, such as biology, environmental sciences or forest science, and complemented with required supplementary studies.

Foreign students are also required to have sufficient proficiency in English; see Chapter 2.2.2.

How to apply

The application procedure for the right to pursue doctoral studies is described in Chapter 1.5. There are four annual deadlines for submitting one's application to the Doctoral Programme. Application deadlines during the academic year are 31 Aug, 30 Nov, 28 Feb and 31 May. The application should also include degree certificates and any other descriptions of the applicant's background education.

Requirements for a doctorate/ licentiate

A doctoral degree or a licentiate degree consists of the following elements:

- A doctoral dissertation or licentiate thesis
- Doctoral/ Licentiate studies (30 ECTS in total):
 - Transferable skills studies (10 ECTS)
 - Studies in the discipline and field of research (20 ECTS)

A. General transferable skills studies (10 ECTS) that may include a number of the following courses provided by the University of Eastern Finland's Doctoral School:

- Business for PHD students (2 ECTS)
- Conference English (3 ECTS)
- English for Postgraduate Students (4 ECTS)
- Orientation to Postgraduate Studies (0 ECTS)
- Orientation to Doctoral Candidates (0 ECTS)
- Information Skills for Postgraduate Students (2 ECTS)
- Methods of Scientific Thought and the History of Science (1,5 ECTS)
- Scientific Presentation Skills/Scientific Writing Skills

- Research Ethics (1 ECTS)
- The Qualitative Thesis (6 ECTS)
- The Quantitative Thesis (3 ECTS)

B. Studies in the discipline and field of research (20 ECTS) including the following studies:

Methodology studies and courses in the student's area of specialisation (between 8 and 16 ECTS)

International studies (up to 8 ECTS; recommended)

Publications not included in the doctoral dissertation or licentiate thesis

Book exam (up to 8 ECTS; optional)

Doctoral studies seminar (between 1 and 4 ECTS; mandatory)

Department of Environmental Sciences:

- 3710455 Stable Isotopes in Environmental Research, 5 ECTS (Christina Biasi)
- 3710300 Journal Club in Biogeochemistry, 2-4 ECTS (Christina Biasi)
- 3710418 Design of Ecological and Environmental Experiments, 4 ECTS (Jarmo Holopainen)
- 3710406 Ecotoxicology and Risk Assessment, 4 ECTS (Mikko Kolehmainen)
- 3710405 Ecological Stress Physiology of Plants, 6 ECTS

Department of Biology:

- 3123173 Introduction to Metabolomics, 2 ECTS (Markku Keinänen, available in next semester)
- 3123124 Mechanisms in Plant Development, 5 ECTS (Elina Oksanen, available in next semester)
- new: Journal Club in Plant Biology, 2-4 ECTS (Elina Oksanen, Markku Keinänen, Sari Kontunen-Soppela)
- new: Advanced experimental design and statistical analysis of biological data (Anssi Vainikka)
- new: Plant imaging techniques and related data processing (from August 2015 onwards)

The degree may also include other advanced-level courses complemented in English that are necessary for the doctoral studies.

Training, in particular special courses, in the doctoral programme is provided in cooperation with the national networking programmes in the field, such as the Finnish Doctoral Programme in Plant Science, Doctoral Programme in Forest Sciences, the Finnish Doctoral Programme in Environmental Science and Technology (EnSTe), the Biological Interactions Doctoral Programme (BIOINT), the Finnish School in Wildlife Biology, Conservation and Management (LUOVA) and Doctoral Program in Integrated Catchment and Water Resources Management (VALUE).

Management group of the doctoral programme

Director of the doctoral programme Professor Matti Vornanen (Department of Biology); University researcher Christina Biasi (Department of Environmental Science); Professor Toini Holopainen (Department of Environmental Science); Professor Jarmo Holopainen (Department of Environmental Science); Professor Riitta Julkunen-Tiitto (Department of Biology); University researcher Markku Keinänen (Department of Biology); Professor Raine Kortet (Department of Biology); Doctoral student Richard Lamprecht (Department of Environmental Science);

Professor Pertti Martikainen (Department of Environmental Science); Assistant professor Tommi Nyman (Department of Biology); Professor Elina Oksanen (Department of Biology); Doctoral student Tendry Randriamanana Rapatsalahy (Department of Biology); Professor Heikki Roininen (Department of Biology); University researcher Jouni Sorvari (Department of Environmental Science) and Assistant professor Anssi Vainikka (Department of Biology). Dr. Merja Lyytikäinen acts as a coordinator of the programme.

2.2.2.11 Doctoral Programme in Environmental Health

The purpose of the Doctoral Programme in Environmental Health is to train experts able to solve the multi-disciplinary problems of environmental health. The theoretical framework in the programme is the environmental health risk assessment applied to various issues in the field of environmental health. The elements of the programme are the following:

- (1) General transferable skills studies
 - Includes the themes of information retrieval, communication and project management
- (2) Fundamentals of environmental health sciences
 - The purpose of these studies in the discipline and field of research is to ensure that all students in the doctoral programme have a basic understanding of environmental health sciences and their methodology. Depending on the student's background, the module may include introductory courses in environmental health or advanced-level courses for those who have completed introductory courses as part of their earlier degree.
- (3) Thematic studies in environmental health and studies in the specific field of research
 - This module consists of advanced-level studies on different branches of environmental health related to the student's own field of research and different environmental risks (such as indoor air, outdoor air, chemicals, radiation and noise) as well as studies in the student's specific field of research.

Students who have completed the programme are prepared to work as researchers and experts in the different areas of environmental health both in Finland and abroad.

Degrees available in the doctoral programme

The degrees available in the Doctoral Programme in Environmental Health are Doctor of Philosophy, Licentiate of Philosophy, Doctor of Science (Health Care) and Licentiate of Science (Health Care), Doctor of Science (Pharmacy) and Licentiate of Science (Pharmacy) as well as Doctor of Medicine.

Eligibility for doctoral degree studies and admission criteria

The eligibility criteria for doctoral degree studies are described in Chapter 1.4. Applicants must have completed a Master's degree in a relevant field. Relevant fields include the following:

- Master of Science in environmental sciences, biology, biosciences, chemistry, physics, technology, engineering, health care or pharmacy
- Licentiate of Medicine or Veterinary Medicine
- A corresponding foreign degree or a Master's degree from a University of Applied Sciences (complemented with the required supplementary studies listed in the decision on the right to pursue doctoral studies).

Foreign students are also required to have sufficient proficiency in English demonstrated as specified in Chapter 2.2.2.

How to apply

The application procedure for the right to pursue doctoral studies is described in Chapter 1.5. There are four annual deadlines for submitting one's application to the Doctoral Programme. Application deadlines during the academic year are 31 Aug, 30 Nov, 28 Feb and 30 April.

Requirements for a doctorate/ licentiate

Requirements for the degrees of Doctor of Philosophy, Licentiate of Philosophy, Doctor of Science (Health Care) and Licentiate of Science (Health Care) are the following:

- A doctoral dissertation or licentiate thesis
- Doctoral / licentiate studies (30 ECTS in total):
 - Transferable skills studies (from 8 to 10 ECTS)
 - Studies in the discipline and field of research (from 20 to 22 ECTS)

Requirements for the degree of Doctor of Science (Pharmacy) and Licentiate of Science (Pharmacy) are the following:

- A doctoral dissertation or licentiate thesis
- Doctoral / licentiate studies (40 ECTS in total):
 - Transferable skills studies (from 10 to 20 ECTS)
 - Studies in the discipline and field of research (from 20 to 30 ECTS)

Requirements for the degree of Doctor of Medicine: A doctoral dissertation or licentiate thesis

- Doctoral/ licentiate studies (30 ECTS in total):
 - Transferable skills studies (from 5 to 15 ECTS)
 - Studies in the discipline and field of research (from 15 to 25 ECTS)

A. General transferable skills studies that may include a number of the following courses provided by the University of Eastern Finland's Doctoral School:

- Conference English (3 ECTS)
- English for Postgraduate Students (4 ECTS)
- Immateriaalioikeuksien perusteet (1 ECTS)*
- Mediaviestintä jatkokoulutettaville (2 ECTS)*
- Orientation to Postgraduate Studies (0 ECTS)
- Puheaviestintä jatkokoulutettaville (2 ECTS)*
- Information Skills for Postgraduate Students (2 ECTS)
- Methods of Scientific Thought and the History of Science (1,5 ECTS)
- Orientation to Doctoral Candidates (0 ECTS)
- Research Ethics (1 ECTS)
- Tutkimusprojektin hallinta (2 ECTS)*
- Yliopistopedagoginen PD-koulutusohjelma (30 ECTS)*

In addition, general transferrable skills studies may include courses on research methods, for example:

4455040 Introduction to Epidemiology	(2 ECTS)
3710434 Ympäristösolubiologia*	(5 ECTS)
4510031 Eläinten käyttö tutkimuksessa: kurssi toimenpiteiden suorittajille*	(2,5-3 ECTS)

*) in Finnish

Studies in the discipline and field of research

Fundamentals of Environmental Health Sciences

Suitable courses (in English) provided by the University of Eastern Finland include:

3710453 Environmental Health for International Students**	(5 ECTS)
4219512 Toxicological and Environmental Risk Assessment and Risk Communication	(3 ECTS)
3710429 Environmental Health Risk Assessment	(4 ECTS)
3710435 Exposure Assessment	(3 ECTS)
3710436 Exposure Measurements**	(3 ECTS)
3710437 Modelling in Exposure Assessment	(3 ECTS)
4455703 Environmental Epidemiology	(3 ECTS)
3710439 Decision Analysis and Risk Management	(6 ECTS)
4219214 Toxicology of Compounds	(4 ECTS)
4219211 Toxicity Testing	(3 ECTS)

Other courses in toxicology

**a corresponding course is offered in Finnish, but not both can be included in one degree.

Thematic studies in environmental health and studies in the specific field of research

The following courses are examples of suitable courses in the module that are regularly provided by the University of Eastern Finland:

3710442 Health Effects of Air Pollutants	(6 ECTS)
3710404 Radiation Biology	(5 ECTS)
3710447 Measurements and Dosimetry of Electromagnetic Fields	(3 ECTS)
3710448 Measurements of Optical Radiation	(3 ECTS)
3710461 Chemicals, Environment and Health	(4 ECTS)
3710402 Advanced Occupational Hygiene	(3 ECTS)
4219507 Occupational Toxicology	(3 ECTS)
3710443 Control of Indoor Air Impurities and Ventilation	(5 ECTS)
3710449 Noise Assessment	(4 ECTS)

In addition, the module may contain suitable courses completed elsewhere and book exams.

Management group of the doctoral programme

Director of the doctoral programme, Professor Jukka Juutilainen (Dept. of Environmental Science); Professor Maija-Riitta Hirvonen (Dept. of Environmental Science); Research Director Pertti Pasanen (Dept. of Environmental Science); Professor Kimmo Räsänen (School of Medicine); Professor Tomi-Pekka Tuomainen (School of Medicine); Professor Matti Viluksela (Dept. of Environmental Science) and one or two student members. Stakeholder representatives: Research Professor Maila Hietanen (Finnish Institute of Occupational Health); Chief Researcher Anne Hyvärinen (National Institute for Health and Welfare); Research Professor Hannu Komulainen (National Institute for Health and Welfare); Research Professor Kai Savolainen (Finnish Institute of Occupational Health).

2.2.3 Faculty of Health Sciences

2.2.3.1 Life Course in Context Doctoral Programme

The doctoral programme is described in Chapter 2.2.1.1. Doctoral students of the Faculty of Health Sciences may complete studies in the Life Course in Context Doctoral Programme, if their research project is related to the research field of the programme.

2.2.3.2. Doctoral Programme in Nursing Science

Doctoral education in nursing science is arranged within the framework of the Doctoral Programme in Nursing Science provided by the Faculty of Health Sciences. The purpose of the Doctoral Programme in Nursing Science provided by the University of Eastern Finland is to train excellent, internationally oriented researchers and experts with doctoral training for a variety of national and international duties. Another aim is to strengthen multidisciplinary research. The doctoral programme works in close cooperation with the Finnish Doctoral Training network in Nursing Science (a network of five universities – University of Eastern Finland, University of Oulu, University of Tampere, University of Turku and Åbo Akademi). Doctoral training involves an opportunity for diverse cooperation in multidisciplinary doctoral programmes. Students can also benefit from training and education provided by international networks and other opportunities provided by joint doctoral programmes.

Degrees available in the doctoral programme

The following degrees are available in the Doctoral Programme in Nursing Science: Licentiate of Health Sciences, Doctor of Health Sciences, Licentiate of Philosophy and Doctor of Philosophy.

Eligibility for doctoral degree studies and admission criteria

The eligibility criteria for doctoral degree studies are described in Chapter 1.4. Students, who have performed advanced studies in the discipline of nursing science, can be accepted as PhD students in the Doctoral Programme in nursing science. In addition, the amount and quality of intermediate and advanced studies in research methodology (quantitative and qualitative methods, statistics) or otherwise proven methodological skills are taken into account in the selection process.

The skills of eligible applicants to any of the doctoral programmes provided by the Faculty of Health Sciences and their commitment to a successful completion of their doctoral studies are assessed according to the following joint criteria, which constitute the admission criteria to the programme:

- quality of the research plan: innovativeness of the research topic, feasibility, clarity and implementation methods of the research plan as well as its suitability to the research profile and strategy of the department, school or unit where the research project is to be carried out;
- scientific and practical relevance of the research topic;
- evidence of any previous research projects carried out by the applicant, such as working as a researcher or research funding obtained
- performance in Master's studies or corresponding studies
- international orientation and language skills required in the studies.

In the selection process, the adequacy of supervision and the special expertise required from the supervisor are also taken into consideration. Applicants' preparedness, motivation and commitment to doctoral studies can also be estimated with interviews.

How to apply

The application procedure for the right to pursue doctoral studies is described in Chapter 1.5. There are two annual deadlines for applications to the Doctoral Programme in Nursing Science (30 April and 30 November).

The application form and required appendices are submitted to the Register's office of the Faculty of Health Sciences (University of Eastern Finland, Faculty of Health Sciences, Administration Service Center, Register's Office (Kirjaamo), Secretary of Personnel Affairs Jari Koponen, P.O.Box 1627, Yliopistonranta 1 C, 70211 Kuopio). Visiting address: Canthia, A/H-entrance, room1016.

Applicants to the Doctoral Programme in Nursing Science are expected to prepare a research plan of 5 to 10 pages (including references and annexes) drafted according to the instructions of the Academy of Finland (see www.aka.fi). In addition, applicants to the Doctoral Programme in Nursing Science are required to provide the following:

- a resource plan: a plan detailing whether the applicant is going to study full-time or work and study at the same time, a realistic progress plan, funding options and an account of how the prospective student intends to use the doctoral degree;
- an estimate of the applicant's English skills (writing, speaking, listening and reading; the grade of the language studies completed in the Master's degree or another test result describing the applicant's language skills).

Student selection is made on the basis of an assessment by the department and an estimation of the supervisor resources available in the department. For more information on research projects, see the website of the department (www.uef.fi/hoitot) or contact the professors of the department or the responsible professor for the doctoral programme, Katri Vehviläinen-Julkunen (Katri.VehvilainenJulkunen@uef.fi). If necessary, applicants may be invited to be interviewed or video interviewed for the doctoral programme.

Requirements for a licentiate/doctorate

Studies in the doctoral programme consist of general transferable skills studies and subject-related doctoral studies. Doctoral studies are planned jointly by the student and the supervisors and a personal doctoral study plan is prepared. The personal post graduate study plan has to be submitted to the Faculty of Health Sciences within 3 months of the admission date. The time that should be reserved for completing a doctorate is four years of full-time study.

The extent of theory studies in the Doctoral Programme in Nursing Science is 50 ECTS. This consists of between 10 and 20 ECTS of general transferable skills studies (such as theory and philosophy of science, good academic practice, communication skills, teamwork skills), between 30 and 40 ECTS of studies in the discipline and field of research (such as research methodology, ethical issues in nursing, research of training in the health sector, family nursing science, promotion of health, research of health service systems, research of results) and a research project, which is a doctoral dissertation or a licentiate thesis.

General transferable skills studies (from 10 to 20 ECTS)

General transferable skills studies include study modules provided by the University of Eastern Finland's Doctoral School.

The purpose of the general transferable skills studies provided by the University of Eastern Finland's Doctoral School is that the doctoral student

- becomes familiar with the general theory and philosophy of science
- adopts good research ethics and learns to know the associated legislation and good academic practice
- acquires the ability to plan a scientific research project, including problematisation, methods, resources, scheduling, etc.
- acquires good communication skills in the course of studies and is capable of critical scientific communication, both oral and written, and of explaining his or her field to non-specialist audiences
- learns management and teamwork skills
- acquires the basic abilities to provide scientific training to others and work as a specialist in the field
- acquires the preparedness to work in an international environment.

Studies in the discipline and field of research (from 30 to 40 ECTS)

Studies in the student's specific field of research and supporting fields should provide the student with as much knowledge on the research topic as possible. The scope of the studies and the emphasis of different elements depend on the theme of the research project and the desired targets of the studies. However, study modules in subject-related doctoral studies must be sufficiently extensive.

Studies in the discipline and field of research in the Doctoral Programme in Nursing Science may consist of doctoral study modules provided by the University of Eastern Finland or other universities and research schools.

1. Courses provided by the Finnish Doctoral Programme in Nursing Science (between 6 and 8 courses provided each year)
2. PhD Symposium, 6 ECTS
3. Courses provided by the Graduate School of Clinical Research (Kuopio University Hospital and UEF), such as Introductory Course for a Clinical Researcher (5 ECTS).

See the Doctoral Curricula in WebOodi.

Doctoral studies in the Faculty of Health Sciences may also include studies that do not belong to any of the doctoral study modules. Their scope is determined according to the following general principles:

- seminars (up to 8 ECTS)
- scientific conferences in Finland and abroad (up to 8 ECTS)
- work in research institutes or similar (up to 8 ECTS)
- scientific articles related to the field of research but not included in the doctoral dissertation or another study module (up to 1/10 of the total scope of the degree). The number of credits awarded for each scientific article is based on a statement by the student's main supervisor.
- book exams (up to 1/5 of the total scope of the degree) (Text books: 100 pages =1,5 ECTS)
- studies not included in any other degrees (where applicable)

A doctoral dissertation is also required for a doctoral degree.

Further information on the programme and contact persons can be found on the program's Internet- pages at: <http://www.uef.fi/en/dpnursing>

2.2.3.3 Doctoral Programme in Well-Being and Health Research

The Doctoral Programme in Well-Being and Health Research is described in Chapter 2.2.4.3. Doctoral students of the Faculty of Health Sciences may complete studies in the Doctoral Programme in Well-Being and Health Research, if their research project is related to the research field of the programme.

2.2.3.4 Doctoral Programme of Public Health

The purpose of the Doctoral Programme of Public Health is to provide doctoral and licentiate degrees in health sciences in the University of Eastern Finland. The doctoral and licentiate degrees completed in the doctoral programme are broadly related to health sciences. At the same time, the doctoral programme is essentially interdisciplinary in nature, as theory studies, methodology and the research project for the doctoral dissertation may contain elements of several areas of science. The principal purpose is to train world-class academic professionals for the needs of research, education, administration and the business community as well as national and international cooperation in the field of public health (such as NGOs).

Degrees available in the doctoral programme

The following degrees are available in the Doctoral Programme of Public Health: Licentiate of Philosophy, Doctor of Philosophy, Licentiate of Health Science, Doctor of Health Science, Doctor of Dental Science and Doctor of Medicine.

Eligibility for doctoral degree studies and admission criteria

The eligibility criteria for doctoral degree studies are described in Chapter 1.4. Suitable background education for the Doctoral Programme of Public Health include the degrees of Licentiate of Medicine, Licentiate of Dental Science or Licentiate of Veterinary Science, the degree of Master of Science (Health Care) (major subject nutrition, nursing science, health administration etc.) or a Master's degree in social sciences, behavioural sciences, natural sciences, statistics etc. (the need for supplementary studies will be assessed on a case-by-case basis).

The skills of eligible applicants to any of the doctoral programmes provided by the Faculty of Health Sciences and their commitment to a successful completion of their doctoral studies are assessed according to the following joint criteria, which constitute the admission criteria of the programme:

- quality of the research plan: innovativeness of the research topic, feasibility, clarity and implementation methods of the research plan as well as its suitability to the research profile and strategy of the department, school or unit where the research project is to be carried out;
- scientific and practical relevance of the research topic;
- evidence of any previous research projects carried out by the applicant, such as working as a researcher or research funding obtained
- performance in Master's studies or corresponding studies
- international orientation and language skills required in the studies.

In the selection process, the adequacy of supervision and the special expertise required from the supervisor are also taken into consideration. Applicants' preparedness, motivation and commitment to doctoral studies can also be estimated with interviews.

How to apply

The application procedure for the right to pursue doctoral studies is described in Chapter 1.5. Deadlines for applications to the Doctoral Programme of Public Health are 31 August, 30 November, 28 February and 30 April.

The application form and required appendices are submitted to the Register's office of the Faculty of Health Sciences (University of Eastern Finland, Faculty of Health Sciences, Administration Service Center, Register's Office (Kirjaamo), Secretary of Personnel Affairs Jari Koponen, P.O.Box 1627, Yliopistoranta 1 C, 70211 Kuopio). Visiting address: Canthia, A/H-entrance, room1016.

In addition to the appendices mentioned in the application form applicants are asked to submit CV and motivation letter. Depending on the call, applicants can be asked to submit additional documents, and details for each call must be checked on the Internet –pages of the Doctoral Programme of Public Health: <http://www.uef.fi/en/dpph/etusivu>

Requirements for a licentiate/doctorate

Doctor of Philosophy, Licentiate of Philosophy, Doctor of Science (Health Care) and Licentiate of Science (Health Care): Studies of 40 ECTS (of which transferable skills studies account for between 5 and 10 ECTS and studies in the discipline and field of research for between 25 and 35 ECTS) and an approved licentiate thesis or doctoral dissertation.

Doctor of Dental Science and Doctor of Medicine: Studies of 30 ECTS (of which transferable skills studies account for between 5 and 15 ECTS and studies in the discipline and field of research for between 15 and 25 ECTS) and an approved doctoral dissertation.

The studies are divided into transferable skills studies and subject-related doctoral studies. The balance of transferable skills courses and subject-related doctoral studies may vary and shall be determined jointly by the student and the supervisors depending on the student's educational background, research plan and career plan at the time when the personal doctoral study plan is being prepared. The personal post graduate study plan has to be submitted to the Faculty of health Sciences within 3 months of the admission date.

Doctoral or licentiate studies of students in the Doctoral Programme in Public Health shall include the following transferable skills studies:

- a. English for Postgraduate Students, Conference English (or equivalent)
- b. Research Ethics (or equivalent)
- c. Information Retrieval for Doctoral Students (or equivalent)
- d. Research Project Management or Media Communication
- e. The rest consists of optional courses.

Studies in the discipline and field of research:

- a. Epidemiology and its applications (at least 4 ECTS)
- b. Other statistical methods (such as bioinformatics, qualitative methods or equivalent) (at least 2 ECTS)

- c. Courses related to health service systems and funding (at least 2 ECTS)
- d. Global health/international health (at least 2 ECTS)
- e. Other courses and modules according to the student's personal study plan depending on previous studies, the field of research etc.

In addition to the above, doctoral studies may also include other studies than those provided within the framework of study modules. Their scope is determined according to the following general principles:

- seminars (up to 8 ECTS)
- scientific conferences in Finland and abroad (up to 8 ECTS)
- work in research institutes or similar (up to 8 ECTS)
- scientific articles related to the field of research but not included in the doctoral dissertation or another study module (up to 1/10 of the total scope of the degree). The number of credits awarded for each scientific article is based on a statement by the student's main supervisor.
- book exams (up to 1/5 of the total scope of the degree) (Text books: 100 pages =1,5 ECTS)
- studies not included in any other degrees (where applicable)
- a completed Specialist Degree in Medicine or Specialist Degree in Dentistry (8 ECTS)

When preparing the doctoral study plan, the doctoral student and the supervisor should carefully consider the balance of other studies in the degree and ensure that the content of the degree meets the requirements for a doctoral degree and supports the completion of the degree.

Further information on the programme and contact persons can be found on the program's Internet- pages at: <http://www.uef.fi/en/dpph>

2.2.3.5 Doctoral Programme of Educational Sciences in Interdisciplinary Context

The doctoral programme is described in Chapter 2.2.1.2. The doctoral programme is also open to doctoral students pursuing a doctorate in pharmacy (social pharmacy), if the theme of their licentiate thesis or doctoral dissertation is related to the research topics of the doctoral programme.

2.2.3.6 Doctoral Programme of Clinical Research

The Doctoral Programme of Clinical Research is a multidisciplinary programme that covers all the specialities in clinical medicine. PhD training offered by the programme is primarily organised in the Kuopio University hospital (KUH) and as online teaching. Doctoral training is mostly provided in the hospital environment of Kuopio University Hospital and as online courses. The purpose of the doctoral programme is to support and accelerate the completion of doctoral theses, particularly those related to clinical research or clinical materials. It serves researchers in all health care units that are part of the special responsibility area (ERVA) of Kuopio University Hospital and cooperates with The National Graduate School of Clinical Investigation (CLIGS). The purpose of the training provided in the doctoral programme is to create professionals with skills for independent and team-based clinical research projects.

Degrees available in the doctoral programme

The degrees available in the Doctoral Programme of Clinical Research are Doctor of Medicine, Doctor of Dental Science, Licentiate of Philosophy, Doctor of Philosophy, Licentiate of Pharmacy, Doctor of Pharmacy, Licentiate of Health Science and Doctor of Health Science.

Eligibility for doctoral degree studies and admission criteria

The eligibility criteria for doctoral degree studies are described in Chapter 1.4. An applicant to the Doctoral Programme of Clinical Research should have a completed or currently ongoing applicable Master's degree and an ongoing or planned research project suitable for a doctoral dissertation project with a research plan approved by an eligible main supervisor as well as supervisors for the doctoral dissertation.

The suitability of the applicant's degree will be assessed by the Doctoral Programme of Clinical Research, and a prospective student may be required to complete supplementary studies to acquire the competencies necessary for participating in the programme.

The skills of eligible applicants to any of the doctoral programmes provided by the Faculty of Health Sciences and their commitment to a successful completion of their doctoral studies are assessed according to the following joint criteria, which constitute the admission criteria of the programme:

- quality of the research plan: innovativeness of the research topic, feasibility, clarity and implementation methods of the research plan as well as its suitability to the research profile and strategy of the department, school or unit where the research project is to be carried out;
- scientific and practical relevance of the research topic;
- evidence of any previous research projects carried out by the applicant, such as working as a researcher or research funding obtained;
- performance in Master's studies or corresponding studies;
- international orientation and language skills required in the studies.

In the selection process, the adequacy of supervision and the special expertise required from the supervisor are also taken into consideration. Applicants' preparedness, motivation and commitment to doctoral studies can also be estimated with interviews.

How to apply

The application procedure for the right to pursue doctoral studies is described in Chapter 1.5. There are four annual deadlines for applications to the Doctoral Programme of Clinical Research: 31 August, 30 November, 28 February and 30 April.

If the applicant has not yet completed his/her previous degree, the applicant to the Doctoral Programme of Clinical Research shall submit a transcript of records instead of a degree certificate and a plan for completing the remaining studies in the previous degree (a personal study plan). In addition, a favourable opinion of the Research Ethics Committee and administrative approval from the organization should be submitted.

In addition to the documents mentioned above, an applicant to the Doctoral Programme of Clinical Research may, on a case-by-case basis, also be asked to provide other documentation considered as necessary for the selection. Details for each call must be checked on the Internet –pages of the Doctoral Programme of Clinical Research: <http://www.uef.fi/en/dpcr/etusivu>

Degree structure and requirements

Doctor of Medicine and Doctor of Dental Science: Studies of 30 ECTS (of which transferable skills courses account for between 5 and 15 ECTS and studies in the discipline and field of research for between 15 and 25 ECTS) and an approved doctoral dissertation.

Licentiate of Philosophy, Doctor of Philosophy, Licentiate of Pharmacy, Doctor of Pharmacy, Licentiate of Science (Health Care) and Doctor of Science (Health Care): Studies of 40 ECTS (of which transferable skills courses account for between 10 and 20 ECTS and studies in the discipline and field of research for between 20 and 30 ECTS) and an approved licentiate thesis or doctoral dissertation.

The balance of transferable skills courses and subject-related doctoral studies shall be determined jointly by the student and the supervisors at the time when the personal doctoral study plan is being prepared and depends on the student's educational background and research plan. The personal post graduate study plan has to be submitted to the Faculty of Health Sciences within 3 months of the admission date.

Transferable skills studies

The purpose of the general transferable skills studies provided by the University of Eastern Finland's Doctoral School is that the doctoral student

- becomes familiar with the general theory and philosophy of science
- adopts good research ethics and learns to know the associated legislation and good academic practice
- acquires the ability to plan a scientific research project, including problematisation, methods, resources, scheduling, etc.
- acquires good communication skills in the course of studies and is capable of critical scientific communication, both oral and written, and of explaining his or her field to non-specialist audiences
- learns management and teamwork skills
- has the basic qualification to give scientific education and work as a specialist in the field
- acquires the preparedness to work in an international environment.

General transferable skills studies may also include, where applicable, studies provided by the Doctoral Programme of Clinical Research and the Research Unit of Kuopio University Hospital (see Content of the studies).

Studies in the discipline and field of research

Studies in the student's specific field of research and supporting fields should provide the student with as much knowledge on the research topic as possible. The scope of the studies and the emphasis of different elements depend on the theme of the research project and the desired targets of the studies. However, study modules in subject-related doctoral studies must be sufficiently extensive.

Studies not provided by the University of Eastern Finland, the Doctoral Programme of Clinical Research or the Kuopio University Hospital and studies that are not conferences, separate publications or book exams must be proven by submitting proof of the attainment and the main supervisor's statement of the relevancy of the attainment from the perspective of the personal doctoral study plan and of the number of ECTS credits awarded for the attainment. If the student has completed courses abroad, their credits must be converted to correspond with the credit system used in Finland.

Content of the studies

It is recommended that all doctoral students in the Doctoral Programme of Clinical Research

attend the courses *Introduction to Clinical Research* (1 ECTS) and *Seminar of the Graduate School of Clinical Research* (2 ECTS) provided by the Doctoral Programme of Clinical Research as well as *Introductory Course for a Clinical Researcher* (5 ECTS; online course) provided by the Research Unit of Kuopio University Hospital. In addition, it is recommended that all doctoral students attend at least one scientific conference and have a presentation there.

Studies of the doctoral students in the Doctoral Programme of Clinical Research may consist of the following modules:

1. General transferable skills studies provided by the University of Eastern Finland's Doctoral School
(course descriptions are available at <http://www.uef.fi/uef/valmiustaito-opinnot>)
2. Studies in the discipline and field of research
 - a) A completed Specialist Degree in Medicine or Specialist Degree in Dentistry (8 ECTS)
 - b) Modules provided by the Doctoral Programme of Clinical Research, Kuopio University Hospital and University of Eastern Finland (course descriptions are available in WebOodi at <https://wiola.uef.fi/weboodi/>)
 - c) Other study modules to be agreed separately by supervisors, such as seminar series (up to 8 ECTS) and similar courses, courses provided by other doctoral programmes, studies completed in other universities and international courses (as applicable).
 - d) Public examination of the research plan (3 ECTS)
The purpose of a public examination of the research plan is to provide the doctoral student with skills for assessing critically a research topic, planning a research project required for a doctoral dissertation and replying questions asked by a panel (course description available in WebOodi).
 - e) Scientific conferences (up to 8 ECTS; for a one- or two-day conference: 1 ECTS; for a three- or four-day conference: 2 ECTS; making a presentation: 1 ECTS)
 - f) Separate publications not included in the doctoral dissertation or another study module (up to 3 or 4 ECTS and up to 1/10 of the total scope of the degree)
 - g) Book exams (up to 1/5 of the total scope of the degree) (Text books: 100 pages = 1,5 ECTS)

A doctoral dissertation is also required for a doctoral degree. Requirements for a doctoral dissertation are detailed in Chapter 2.3.3.

Further information on the programme and contact persons can be found on the program's Internet- pages at: <http://www.uef.fi/en/dpcr/>

2.2.3.7 Doctoral Programme in Medical Physics and Engineering

The doctoral programme is described in Chapter 2.2.2.7. Doctoral students of the Faculty of Health Sciences may complete studies in the Doctoral Programme in Medical Physics and Engineering, if their research project is related to the research field of the programme.

2.2.3.8 Doctoral Programme in Drug Research

The Doctoral Programme in Drug Research is a multidisciplinary programme that covers all the specific areas in pharmaceutical research and toxicology. The doctoral programme is operated by the School of Pharmacy of the University of Eastern Finland in close cooperation with the national FinPharma Doctoral Program (FPDP); <http://fpdp.fi>.

Doctoral training is provided through FPDP's annual meeting and Finnish and international intensive courses organised by the School of Pharmacy, doctoral programmes in related sciences and different FPDP sections (Pharmacy, Clinical Drug Research, Drug Discovery and Toxicology). The courses are repeated in cycles of 1 to 4 years.

The aim is to train experts with a doctoral degree and wide range of skills to work in duties related to drug research and development, pharmacovigilance and toxicology in Finland and abroad for the needs of both private and the public sector. It takes about four years for a full-time doctoral student to acquire the necessary scientific and methodological skills for preparing a doctoral dissertation and completing a doctorate.

Degrees available in the doctoral programme

The degrees available in the Doctoral Programme in Drug Research are Licentiate of Science (Pharmacy), Doctor of Science (Pharmacy), Licentiate of Philosophy, Doctor of Philosophy, Doctor of Dental Science and Doctor of Medicine.

Eligibility for doctoral degree studies and admission criteria

The eligibility criteria for doctoral degree studies are described in Chapter 1.4. Eligible applicants to the Doctoral Programme in Drug Research have completed a Master's degree in pharmacy, natural sciences or other relevant field or an equivalent studies in medicine or dental science (300 ECTS).

The skills of eligible applicants to any of the doctoral programmes provided by the Faculty of Health Sciences and their commitment to a successful completion of their doctoral studies are assessed according to the following joint criteria, which constitute the admission criteria of the programme:

- quality of the research plan: innovativeness of the research topic, feasibility, clarity and implementation methods of the research plan as well as its suitability to the research profile and strategy of the department, school or unit where the research project is to be carried out;
- scientific and practical relevance of the research topic;
- evidence of any previous research projects carried out by the applicant, such as working as a researcher or research funding obtained
- performance in Master's studies or corresponding studies
- international orientation and language skills required in the studies

In the selection process, the adequacy of supervision and the special expertise required from the supervisor are also taken into consideration. Applicants' preparedness, motivation and commitment to doctoral studies can also be estimated with interviews.

How to apply

The application procedure for the right to pursue doctoral studies is described in Chapter 1.5. There are four annual deadlines for applications to the Doctoral Programme in Drug Research: 31 August, 30 November, 28 February and 30 April.

An open call for applications is published on the website of the University of Eastern Finland's Doctoral School, the website of the FinPharma Doctoral Program and on the EURAXESS site.

The number of students to be admitted indicated in the call for applications is estimated on the basis of available training resources and the need for doctorate-level experts in the field.

The application form and required appendices are submitted to the Register's office of the Faculty of Health Sciences (University of Eastern Finland, Faculty of Health Sciences, Administration Service Center, Register's Office (Kirjaamo), Secretary of Personnel Affairs Jari Koponen, P.O.Box 1627, Yliopistonranta 1 C, 70211 Kuopio). Visiting address: Canthia, A/H-entrance, room1016.

In addition to the appendices mentioned in the application form applicants are asked to submit CV and motivation letter. Depending on the call, applicants can be asked to submit additional documents, and details for each call must be checked on the Internet –pages of the Doctoral Programme in Drug Research: <http://www.uef.fi/en/dpdrugresearch>. If necessary, applicants may be interviewed for the doctoral programme.

Requirements for a licentiate/doctorate

The studies are divided into transferable skills courses and subject-related doctoral studies. The balance of transferable skills courses and subject-related doctoral studies may vary and shall be determined jointly by the student and the supervisors depending on the student's educational background, research plan and career plan at the time when the personal doctoral study plan is being prepared. The personal post graduate study plan has to be submitted to the Faculty of health Sciences within 3 months of the admission date.

Doctor of Science (Pharmacy), Licentiate of Science (Pharmacy), Doctor of Philosophy and Licentiate of Philosophy: Studies of 40 ECTS (of which transferable skills studies account for between 10 and 20 ECTS and studies in the discipline and field of research for between 20 and 30 ECTS) and an approved licentiate thesis or doctoral dissertation.

Doctor of Medicine: Studies of 30 ECTS (of which transferable skills studies account for between 5 and 15 ECTS and studies in the discipline and field of research for between 15 and 25 ECTS) and an approved doctoral dissertation.

The purpose of the general transferable skills studies is that the doctoral student:

- becomes familiar with the general theory and philosophy of science
- adopts good research ethics and learns to know the associated legislation and good academic practice
- acquires the ability to plan a scientific research project, including problem setting, methods, resources, scheduling, etc.
- acquires good communication skills in the course of studies and is capable of critical scientific communication, both oral and written, and of explaining his or her field to non-specialist audiences
- learns management and teamwork skills
- has the basic qualification to give scientific education and work as a specialist in the field
- acquires the preparedness to work in an international environment.

Studies in the discipline and field of research should provide the student with as much knowledge on the research topic as possible, but their scope and mutual balance depend on the research topic and the purposes of the doctoral education. However, study modules in subject-related doctoral studies must be sufficiently extensive. The doctoral student's main field of studies is the field where the student is qualified to pursue doctoral studies.

Studies in the student's main field of research must be advanced-level studies. Studies in the supporting fields can contain intermediate and advanced courses or literature examinations. A doctoral programme may not, however, contain complete intermediate or advanced study modules in their entirety.

Studies not provided by the University of Eastern Finland or FPDP and studies that are not conferences, separate publications or book exams must be proven by submitting proof of the attainment and the main supervisor's statement of the relevancy of the attainment from the perspective of the personal doctoral study plan and of the number of ECTS credits awarded for the attainment. If the student has completed courses abroad, their credits must be converted to correspond with the credit system used in Finland.

The degrees of all doctoral students in the Doctoral Programme in Drug Research must include a preliminary examination (between 5 and 8 ECTS) and a defense of the research plan (3 ECTS).

Studies may consist of the following modules:

1. General transferable skills studies provided by the University of Eastern Finland's Doctoral School
(course descriptions are available at <http://www.uef.fi/uef/valmiustaito-opinnot>)
2. Studies in the discipline and field of research may consist of the following modules:
 - (a) Courses provided by the School of Pharmacy and the University of Eastern Finland
(course descriptions are available in WebOodi: <https://wiola.uef.fi/weboodi/>)
 - (b) Courses provided by the different sections of FPDP
(course descriptions are available at <http://fpdp.fi>)
 - (c) Other courses separately approved by the supervisors, such as seminar series (up to 8 ECTS for seminars)
 - (d) Preliminary examination, between 5 and 8 ECTS

The examination helps to ensure that a doctoral student has sufficient background knowledge on the field of study (for instructions and names of examiners, see <http://fpdp.fi>).

- (e) Defense of the research plan, 3 ECTS

The purpose of a defense of the research plan is to provide the doctoral student with skills for assessing critically a research topic, planning a research project required for a doctoral dissertation and replying questions asked by a panel. The defense of the research plan must be completed by the end of the third year of studies (course description available in WebOodi).

- (f) Scientific conferences, up to 8 ECTS (at least one conference with a presentation by the student is recommended)
Recommendations: for a one- or two-day conference: 1 ECTS; for a three- or four-day conference: 2 ECTS; having a presentation: 1 ECTS.
- (g) Separate publications not included in the doctoral dissertation or another study module, up to 3 or 4 ECTS and up to 1/10 of the total scope of the degree

- (h) Book examinations, up to 6 or 8 ECTS and up to 1/5 of the total scope of the degree
(Text books: 100 pages =1,5 ECTS)
- (i) A completed Specialist Degree in Medicine, 8 ECTS
- (j) Research seminar
- (k) Doctoral dissertation

Requirements for a doctoral dissertation are detailed in Chapter 2.3.

Further information on the programme and contact persons can be found on the program's Internet- pages at: <http://www.uef.fi/en/dpdrugresearch>

2.2.3.9 Doctoral Programme in Molecular Medicine

The Doctoral Programme in Molecular Medicine is an interdisciplinary doctoral training programme with the purpose of training researchers as international experts in modern biomedicine. Molecular medicine studies the causes and mechanisms of origin of diseases on a molecular level and strives to find methods to treat and prevent these diseases. Research fields in the programme range from basic laboratory sciences and diagnostics to applied clinical research. The doctoral programme concentrates on the research of major diseases, such as cardiovascular diseases, type 2 diabetes, obesity, neurological diseases, inflammations and cancer, as well the possibilities provided by stem cell technologies in the treatment of various diseases.

The programme is divided into the following six research programmes: (1) cardiovascular diseases, (2) type 2 diabetes and obesity, (3) neurological diseases, (4) cancer, (5) inflammations and (6) stem cell research. The doctoral programme provides high-quality doctoral education by arranging scientific training courses, seminar series and supervision of doctoral studies. The language of instruction in the doctoral courses is English. Doctoral students prepare their doctoral dissertations in the one of the research groups of the programme. Every doctoral student has at least two supervisors who help the student in preparing a research plan and a doctoral study plan and guide the research project on a regular basis until its completion. The personal post graduate study plan has to be submitted to the Faculty of health Sciences within 3 months of the admission date. The objective of the doctoral programme is to enable doctoral students complete their doctoral degrees in four years.

Degrees available in the doctoral programme

The following degrees are available in the Doctoral Programme in Molecular Medicine: Licentiate of Science (Pharmacy), Doctor of Science (Pharmacy), Licentiate of Philosophy, Doctor of Philosophy, Doctor of Dental Science, Doctor of Medicine, Licentiate of Science (Health Care) and Doctor of Science (Health Care).

Eligibility for doctoral degree studies and admission criteria

The eligibility criteria for doctoral degree studies are described in Chapter 1.4. Eligible applicants to the Doctoral Programme in Molecular Medicine have a Master's degree in sciences, medicine, dental sciences, pharmacy, health care or other relevant field. Persons who university otherwise finds to possess adequate knowledge and skills for PhD studies, can also be given the post graduate study right.

Applicants should have the necessary background knowledge (scientific basic knowledge obtained during the completion of the basic qualification) and skills (scientific methods and their application learned during the completion of the basic qualification) for carrying out research projects, and they should be competent and motivated to pursue a doctoral degree.

The skills of eligible applicants to any of the doctoral programmes provided by the Faculty of Health Sciences and their commitment to a successful completion of their doctoral studies are assessed according to the following joint criteria, which constitute the admission criteria of the programme:

- quality of the research plan: innovativeness of the research topic, feasibility, clarity and implementation methods of the research plan as well as its suitability to the research profile and strategy of the department, school or unit where the research project is to be carried out;
- scientific and practical relevance of the research topic;
- evidence of any previous research projects carried out by the applicant, such as working as a researcher or research funding obtained
- performance in Master's studies or corresponding studies
- international orientation and language skills required in the studies

In the selection process, the adequacy of supervision and the special expertise required from the supervisor are also taken into consideration. Applicants' preparedness, motivation and commitment to doctoral studies can also be estimated with interviews.

How to apply

The application procedure for the right to pursue doctoral studies is described in Chapter 1.5. There are four annual deadlines for applications to the Doctoral Programme in Molecular Medicine: 31 August, 30 November, 28 February and 30 April.

The application form and required appendices are submitted to the Register's office of the Faculty of Health Sciences (University of Eastern Finland, Faculty of Health Sciences, Administration Service Center, Register's Office (Kirjaamo), Secretary of Personnel Affairs Jari Koponen, P.O.Box 1627, Yliopistonranta 1 C, 70211 Kuopio). Visiting address: Canthia, A/H-entrance, room1016.

In addition to the appendices mentioned in the application form applicants are asked to submit a motivation letter and supervisors' statement on the student's ability to perform post graduate studies. Details for each call must be checked on the Internet –pages of the Doctoral Programme in Molecular Medicine: <http://www.uef.fi/en/dpmm>.

Any positions with funding provided by the doctoral programme are announced separately for each call for applications. Applicants to those positions may be asked to supplement their application with other documents in addition to those specified by the faculty. Examples of such documents are:

- An application letter with a description of
 - the applicant's background skills and knowledge
 - the applicant's competence and motivation to pursue doctoral studies.

In addition, applicants may be expected to provide

- a description of their previous research experience
- a list of publications
- letters of recommendation (no more than two).

This additional information provided during the student selection process makes it possible to consider the applicants' previous research experience and knowledge of the research field, which may contribute to the completion of a doctoral degree in this field within the required time limit.

If necessary, applicants may be invited to be interviewed or video interviewed for the doctoral programme.

Requirements for a licentiate/doctorate

Doctor of Philosophy, Licentiate of Philosophy, Doctor of Science (Pharmacy), Licentiate of Science (Pharmacy), Doctor of Science (Health Care) and Licentiate of Science (Health Care): Studies of 40 ECTS (of which transferable skills studies account for between 10 and 20 ECTS and studies in the discipline and field of research for between 20 and 30 ECTS) and an approved licentiate thesis or doctoral dissertation.

Doctoral students must complete at least 10 ECTS of doctoral studies every year. Below is a list of courses in transferable skills studies and the years when they should ideally be completed. A list of the subject-related doctoral studies that can be included in the study module can be found in the Doctoral Curricula in WebOodi. *Orientation to postgraduate studies* is mandatory for all students in the Doctoral Programme in Molecular Medicine. All other courses are optional, and they can be supplemented with other courses in transferable skills studies and subject-related doctoral studies that can be included in the degree. The doctoral study plan should be prepared to support the student's research project and doctoral degree.

1st year

Transferrable skills studies			Studies in the discipline and field of research		
<i>Name of the course</i>	<i>ECTS</i>	<i>Oodi</i>	<i>Name of the course</i>	<i>ECTS</i>	<i>Oodi</i>
Orientation to postgraduate studies	OBLIGATORY 0	1145005	Seminar series in Molecular medicine	3	4118109
English for post graduate students	4	8010060			
Information skills for post graduate students	2	8020250			
Research ethics	1	1145003			

2nd year

Transferrable skills studies			Studies in the discipline and field of research
<i>Name of the course</i>	<i>ECTS</i>	<i>Oodi</i>	subject-specific studies free of choice, about 4-7 ECTS, see list of courses from WebOodi
Conference English	3	8010061	
Immateriaalioikeuksien perusteet*	1	1145002	
Mediaviestintä jatkokoulutettaville*	2	8010051	

3rd year

Transferrable skills studies			Studies in the discipline and field of research
<i>Name of the course</i>	<i>ECTS</i>	<i>Oodi</i>	subject-specific studies free of choice, about 6-8 ECTS, see list of courses from WebOodi
Business for PhD students	2	1145012	
Tutkimusprojektin hallinta*	2	1145006	

4th year

Transferrable skills studies			Studies in the discipline and field of research
<i>Name of the course</i>	<i>ECTS</i>	<i>Oodi</i>	subject-specific studies free of choice, about 8-10 ECTS, see list of courses from WebOodi
Moniammatillisen johtamisen perusteet*	2	5429927	

* in Finnish only

Other courses that may be included in the doctoral degree

- seminars (up to 8 ECTS)
- scientific conferences in Finland and abroad (up to 8 ECTS)
- work in research institutes or similar (up to 8 ECTS)
- scientific articles related to the field of research but not included in the doctoral dissertation or another study module (up to 1/10 of the total scope of the degree; between 3 and 5 ECTS). The number of credits given for each scientific article is based on a statement given by the student's main supervisor.
- book exams (up to 1/5 of the total scope of the degree) (Text books: 100 pages = 1.5 ECTS)
- studies not included in any other degrees (where applicable)

When preparing the doctoral study plan, the doctoral student and the supervisor should carefully consider the balance of other studies in the degree and ensure that the content of the degree meets the requirements for a doctoral degree and supports the completion of the degree.

Doctor of Medicine and Doctor of Dental Science: Studies of 30 ECTS (of which transferable skills studies account for between 5 and 15 ECTS and subject-related doctoral studies for between 15 and 30 ECTS) and an approved doctoral dissertation.

Doctoral students must complete at least 7.5 ECTS of doctoral studies every year. Below is a list of courses in transferable skills studies and the years when they should ideally be completed. A list of the subject-related doctoral studies that can be included in the study module can be found in the Doctoral Curricula in WebOodi. *Orientation to postgraduate studies* is mandatory for all students. All other courses are optional, and they can be supplemented with other courses in transferable skills studies and subject-related doctoral studies that can be included in the degree. The doctoral study plan should be prepared to support the student's research project and doctoral degree.

1st year

Transferrable skills studies			Studies in the discipline and field of research		
<i>Name of the course</i>	<i>ECTS</i>	<i>Oodi</i>	<i>Name of the course</i>	<i>ECTS</i>	<i>Oodi</i>
Orientation to postgraduate studies	OBLIGATORY 0	1145005	Seminar series in Molecular medicine	3	4118109
English for post graduate students	4	8010060			
Information skills for post graduate students	2	8020250			
Research ethics	1	1145003			

2nd year

Transferrable skills studies			Studies in the discipline and field of research
<i>Name of the course</i>	<i>ECTS</i>	<i>Oodi</i>	subject-specific studies free of choice, about 3.5-4.5 ECTS, see list of courses from WebOodi
Conference English	3	8010061	
Immateriaalioikeuksien perusteet*	1	1145002	

3rd year

Transferrable skills studies			Studies in the discipline and field of research
<i>Name of the course</i>	<i>ECTS</i>	<i>Oodi</i>	subject-specific studies free of choice, about 3.5-6.5 ECTS, see list of courses from WebOodi
Business for PhD students	2	1145012	
Tutkimusprojektin hallinta*	2	1145006	

4th year

Transferrable skills studies			Studies in the discipline and field of research
Name of the course	ECTS	Oodi	subject-specific studies free of choice, about 5.5-7.5 ECTS, see list of courses from WebOodi
Moniammatillisen johtamisen perusteet*	2	5429927	

*in Finnish only

Other courses that may be included in the doctoral degree

- seminars (up to 8 ECTS)
- scientific conferences in Finland and abroad (up to 8 ECTS)
- work in research institutes or similar (up to 8 ECTS)
- scientific articles related to the field of research but not included in the doctoral dissertation or another study module (up to 1/10 of the total scope of the degree). The number of credits awarded for each scientific article is based on a statement by the student's main supervisor.
- book exams (up to 1/5 of the total scope of the degree) (Text books: 100 pages =1,5 ects)
- studies not included in any other degrees (where applicable)
- a completed Specialist Degree in Medicine or Specialist Degree in Dentistry (8 ECTS)

When preparing the doctoral study plan, the doctoral student and the supervisor should carefully consider the balance of other studies in the degree and ensure that the content of the degree meets the requirements for a doctoral degree and supports the completion of the degree.

Further information on the programme and contact persons can be found on the program's Internet-pages at: <http://www.uef.fi/en/dpmm>

2.2.3.10 Doctoral Programme in Nutritional Sciences

The purpose of the Doctoral Programme in Nutritional Sciences is to provide interdisciplinary doctoral training for students of nutritional sciences and its neighbouring disciplines (such as medicine and food sciences) who are interested in the interlink between nutrition and health and the relevancy of nutrition in the promotion of health and treatment of diseases. The training in the Doctoral Programme may include, where applicable, courses in both nutritional sciences and its neighbouring disciplines.

Degrees available in the doctoral programme

The following degrees are available in the Doctoral Programme in Nutritional Sciences: Licentiate of Philosophy, Doctor of Philosophy, Doctor of Medicine, Doctor of Dental Sciences, Licentiate of Health Sciences and Doctor of Health Sciences.

Eligibility for doctoral degree studies and admission criteria

The eligibility criteria for doctoral degree studies are described in Chapter 1.4. Eligible applicants to the Doctoral Programme in Nutritional Sciences have a Master's degree in sciences, medicine, dental sciences, pharmacy, health sciences or other relevant field. In special cases, an eligible applicant may attend doctoral training after completing a Bachelor's degree.

The skills of eligible applicants to any of the Doctoral Programmes provided by the Faculty of Health Sciences and their commitment to a successful completion of their doctoral studies are assessed according to the following joint criteria, which constitute the admission criteria of the Programme:

- quality of the research plan: innovativeness of the research topic, feasibility, clarity and implementation methods of the research plan as well as its suitability to the research profile and strategy of the department, school or unit where the research project is to be carried out;
- scientific and practical relevance of the research topic;
- evidence of any previous research projects carried out by the applicant, such as working as a researcher or research funding obtained
- performance in Master's studies or corresponding studies
- international orientation and language skills required in the studies.

In the selection process, the adequacy of supervision and the special expertise required from the supervisor are also taken into consideration. Applicants' preparedness, motivation and commitment to doctoral studies can also be estimated with interviews.

In the Doctoral Programme in Nutritional Sciences, the primary criterion for the admission of students is the applicant's suitability for scientific research.

How to apply

The application procedure for the right to pursue doctoral studies is described in Chapter 1.5. There are four annual deadlines for applications to the Doctoral Programme in Nutritional Sciences: 31 August, 30 November, 28 February and 30 April.

The application form and required appendices are submitted to the Register's office of the Faculty of Health Sciences (University of Eastern Finland, Faculty of Health Sciences, Administration Service Center, Register's Office (Kirjaamo), Secretary of Personnel Affairs Jari Koponen, P.O.Box 1627, Yliopistonranta 1 C, 70211 Kuopio). Visiting address: Canthia, A/H-entrance, room1016.

In addition to the appendices mentioned in the application form applicants are asked to submit a motivation letter, CV (including information on language skills and international experience), list of publications and signed supervision agreement. The agreement can be found at faculty web site at: <http://www.uef.fi/en/ttdk/ohjeet-ja-lomakkeet2>. Details for each call must be checked on the Internet –pages of the Doctoral Programme in Nutritional Sciences: <http://www.uef.fi/fi/dpntr>.

If necessary, applicants may be interviewed for the doctoral programme.

Requirements for a licentiate/doctorate

Studies in the doctoral programme consist of general transferable skills studies and subject-related doctoral studies. Doctoral studies are planned jointly by the student and the supervisors and a personal doctoral study plan is prepared. The personal post graduate study plan has to be submitted to the Faculty of health Sciences within 3 months of the admission date. The time that should be reserved for completing a doctorate is four years of full-time study.

Doctor of Philosophy and Licentiate of Philosophy, Licentiate of Science (Health Care) and Doctor of Science (Health Care): Studies of 40 ECTS (of which transferable skills studies

account for between 5 and 10 ECTS and studies in the discipline and field of research for between 25 and 35 ECTS) and an approved licentiate thesis or doctoral dissertation;

Doctor of Medicine and Doctor of Dental Science: Studies of 30 ECTS (of which transferable skills studies account for between 5 and 15 ECTS and studies in the discipline and field of research for between 15 and 25 ECTS) and an approved doctoral dissertation.

All students are required to have some knowledge in nutrition, which is also included in the requirements for the number of ECTS completed. For students with no background education in nutritional sciences, this knowledge is provided as part of the subject-specific studies in the form of separate doctoral courses. A list of the studies in the discipline and field of research that can be included in the study module can be found in the Doctoral Curricula in WebOodi. Below is an example plan for completing the studies.

Transferrable skills studies			Studies in the discipline and field of research		
<i>Name of the course</i>	<i>ECTS</i>	<i>Oodi</i>	<i>Name of the course</i>	<i>ECTS</i>	<i>Oodi</i>
English for post graduate students	4	8010060	Course in Nutrition, if not in basic education	2-6	see WebOodi, several choices
Information skills for post graduate students	2	8020250			
Research ethics	1	1145003			

2nd year

Transferrable skills studies			Studies in the discipline and field of research
<i>Name of the course</i>	<i>ECTS</i>	<i>Oodi</i>	subject-specific studies free of choice, about 4-7- ECTS, see list of courses from WebOodi
Conference English	3	8010061	

3rd year

Transferrable skills studies			Studies in the discipline and field of research
<i>Name of the course</i>	<i>ECTS</i>	<i>Oodi</i>	subject-specific studies free of choice, about 6-8 ECTS, see list of courses from WebOodi

4th year

Transferrable skills studies			Studies in the discipline and field of research
<i>Name of the course</i>	<i>ECTS</i>	<i>Oodi</i>	subject-specific studies free of choice, about 8-10 ECTS, see list of courses from WebOodi

* in Finnish

See the list of courses from the webOodi.

Other ways to complete subject-related doctoral studies		
	ECTS	Comments
International scientific conferences and meetings <ul style="list-style-type: none"> • duration at least 3 days • own presentation (oral or poster) 	2	2 conferences/degree
Work in research institute abroad <ul style="list-style-type: none"> • duration at least for 1 month 	4	
Book exams	1-4	100 pages = 1,5 ECTS

Further information on the programme and contact persons can be found on the program's Internet- pages at: <http://www.uef.fi/en/dpntr>

2.2.3.11 Doctoral Programme in Environmental Health

The Doctoral Programme in Environmental Health is described in Chapter 2.2.2.11. Doctoral students of the Faculty of Health Sciences may complete studies in the Doctoral Programme in Environmental Health, if their research project is related to the research field of the programme.

2.2.4 Faculty of Social Sciences and Business Studies

The following common directions are observed in the doctoral studies provided by the Faculty of Social Sciences and Business Studies.

Doctoral programmes and the degrees available

The scientific doctoral degrees available in the faculty are the degree of licentiate and doctoral degree, which may be completed as follows:

Doctoral programmes provided by the faculty:

- Past, Space and Environment in Society Doctoral Programme: Licentiate of Philosophy, Doctor of Philosophy (in both Humanities and Natural Sciences), Licentiate of Social Sciences and Doctor of Social Sciences
- Doctoral Programme in Business: Licentiate of Science (Economics and Business Administration) and Doctor of Science (Economics and Business Administration)
- Doctoral Programme in Law: Licentiate of Administrative Sciences, Doctor of Administrative Sciences, Licentiate of Laws, Doctor of Laws. Only those students who have been awarded the study right towards the degree of Licentiate or Doctor of Administrative Sciences prior 1 August 2013 may complete these degrees.
- Doctoral Programme in Social and Health Management: Licentiate of Health Sciences, Doctor of Health Sciences, Licentiate of Social Sciences and Doctor of Social Sciences
- Doctoral Programme in Social Work and Social Services: Licentiate of Social Sciences and Doctor of Social Sciences

Doctoral programmes provided jointly by the Faculty of Social Sciences and Business Studies and other faculties:

- Life Course in Context Doctoral Programme: Licentiate of Social Sciences and Doctor of Social Sciences
- Doctoral Programme in Welfare and Health Research: Licentiate of Social Sciences

and Doctor of Social Sciences

- Doctoral Programme in Social and Cultural Encounters: Licentiate of Social Sciences and Doctor of Social Sciences
- Natural Resources, Environment and Society Doctoral Programme: Licentiate of Philosophy, Doctor of Philosophy (in both Humanities and Sciences), Licentiate of Administrative Sciences, Doctor of Administrative Sciences, Licentiate of Laws, Doctor of Laws, Licentiate of Social Sciences and Doctor of Social Sciences
- Doctoral Programme in Border and Russian Studies: Licentiate of Philosophy, Doctor of Philosophy (in both Humanities and Sciences), Licentiate of Science (Economics and Business Administration), Doctor of Science (Economics and Business Administration), Licentiate of Administrative Sciences, Doctor of Administrative Sciences, Licentiate of Laws, Doctor of Laws, Licentiate of Health Sciences, Doctor of Health Sciences, Licentiate of Social Sciences and Doctor of Social Sciences

In business, law, health sciences and social sciences, it is also possible to complete the degree of Doctor of Philosophy as specified in the curriculum of the respective doctoral programme. The degree is chosen by the student when applying for or during doctoral studies.

In social work, it is also possible to complete a professional licentiate degree in the following specialisation fields: welfare services, empowering social work, social work with children and young people, social work in the field of marginalisation and community social work. Completing the professional Licentiate degree in social work provides the qualifications of a specialized social worker.

Application process

An application to a doctoral programme shall be delivered by the deadlines defined in the curriculum. The applicant must attach a research plan as well as copies of the degree and study certificates into the application.

Studies required for the degrees

Licentiate and doctoral studies comprise at least 40 or 50 ECTS of studies in research and professional skills as well as a licentiate thesis or a doctoral dissertation. Studies may include doctoral education and research seminars, courses and other study modules provided by the doctoral programme as well as training provided by the UEF Doctoral School as specified in the curricula. Studies provided by graduate schools and national doctoral training networks may be counted towards the degree if participation in these studies is not restricted.

Studies completed in other universities may also be counted towards a licentiate or a doctoral degree, if they are part of an approved study plan (decision of the Dean of 3 February 2010). Courses may also be substituted with others, if the objectives and contents of the completed course correspond to the course in the doctoral programme.

No completed studies can be counted towards a licentiate thesis or a doctoral dissertation.

If a doctoral student has previously completed a licentiate degree in his/her current subject or a neighbouring discipline or a doctorate in a neighbouring discipline, studies in research and professional skills are, in most cases, not required. If necessary, the student may be expected to complete supplementary studies as specified in the curriculum of the doctoral programme.

Eligibility of experts and public examination of the dissertation

Supervisors

The Dean will appoint at least two supervisors for every doctoral student. One of the supervisors shall hold a professor's or a docent's title with the University of Eastern Finland or have a corresponding qualification (Degree Regulations of the University of Eastern Finland, Section 4) and be a member of staff in the Faculty of Social Sciences and Business Studies and a member of the supervisory staff of the doctoral programme.

The supervisor can be replaced for a justified reason. Examples of justified reasons are that the theme of the research project has been changed or readjusted or that the research project is not making satisfactory progress. The proposal for replacing a supervisor may be made by the student or by the supervisor, and the final decision is made by the Dean. Any disputes concerning the supervision are primarily settled by the Director of the Department and secondarily by the Dean.

Examiners of a licentiate thesis

Examiners of a licentiate thesis must be persons who have completed a doctorate degree and are not mainly members of the staff of the University of Eastern Finland.

Pre-examiners of a doctoral dissertation

The faculty council appoints for a doctoral dissertation two pre-examiners who, in principle, should hold a docent's qualification or have corresponding scientific merits and not be members of the staff of the University of Eastern Finland. If a preliminary examiner does not have the qualification of a docent, *the Dean* verifies the examiner's eligibility for the task on the basis of a curriculum vitae and a list of publications.

Opponent and Custos

The opponent must be a docent or hold a similar scientific qualification and not be a member of the staff of the University of Eastern Finland (Degree Regulations of the University of Eastern Finland, Section 25). The Custos should, in principle, be a professor or a docent with the University of Eastern Finland.

Public examination of the dissertation

The public examination of the dissertation should, in principle, be held at one of the university campuses.

Transitional provisions

Transition to the doctoral programmes

Students whose right to pursue the degree of a licentiate or a doctor has been awarded before 31 December 2012 must opt for one of the doctoral programmes launched on 1 January 2013 according to the directions of the university.

The faculty follows the instructions of the university regarding the transition period and degree requirements.

When a student fulfils the degree requirements of a chosen doctoral programme, the previously completed studies will be fully taken into account unless otherwise mentioned in the degree requirements.

Instructions on theses and dissertations

Students who have begun their studies before 1 January 2013 are entitled to follow the instructions on theses and dissertations adopted on 1 January 2013.

2.2.4.1 Past, Space and Environment in Society Doctoral Programme

Doctoral students who have been accepted and registered to the doctoral programme belong to the Department of Geographical and Historical Studies. The research mission of the Department of Geographical and Historical Studies is defined as follows: "We conduct research into the use of natural resources, local relations to the environment, welfare and the encounters of cultures in border areas, fringe regions and peripheries, and their social, geographical and historical development dynamics. Accordingly, the Past, Space and Environment in Society Doctoral Programme explores the past, space as a concept of geography and the environment as a social phenomenon. The disciplines represented in the programme are history, geography and environmental policy. The purpose of the programme is to encourage researchers to cross the boundaries between disciplines on the level of theory formulation, methodology and the themes to be studied. It aims to promote research of the themes defined in the mission of the Department of Geographical and Historical Studies (see above), which is also taken into account in study arrangements. The programme is bilingual; courses are either in English or in Finnish.

Degrees available in the doctoral programme

A student admitted to the doctoral programme may complete the following degrees: Licentiate of Philosophy, Licentiate of Social Sciences, Doctor of Philosophy and Doctor of Social Sciences. It is possible to complete the degree of Doctor of Philosophy (Ph.D.) in every major. The student can apply for the right to change the target degree using a form available on the Faculty website. The licentiate degree is voluntary and not an obligatory part of the doctoral degree studies. For a licentiate or a doctoral degree, the student must complete studies of at least 50 ECTS which support the research project or professional competence and write a licentiate thesis or a doctoral dissertation. A licentiate thesis can include a public examination or it can be evaluated in the faculty on the basis of statements given by the examiners. A doctoral dissertation must always be defended in public.

The major subjects and the available degrees in the doctoral programme are:

Finnish History	Licentiate of Philosophy	Doctor of Philosophy
General History	Licentiate of Philosophy	Doctor of Philosophy
Geography	Licentiate of Philosophy	Doctor of Philosophy
Human Geography	Licentiate of Social Sciences	Doctor of Social Sciences/ Doctor of Philosophy
Environmental policy	Licentiate of Social Sciences	Doctor of Social Sciences/ Doctor of Philosophy

In case a PhD student wants to change his/her major in the Doctoral Programme, he/she should write a free-form application to the Head of Academic and Student Affairs of the Faculty of Social Sciences and Business Studies. The application should include personal details, contact information, current and applied major, and current and applied target degree. Grounds for the change of the major must be provided in the application. It is possible to apply for the right to change the major three times a year (deadlines for application for the academic year 2014–2015 are 31st August, 30th November and 30th April). The individual study plan should be updated when major is changed.

Eligibility for doctoral degree studies and admission criteria

The eligibility criteria for doctoral degree studies are described in Chapter 1.4. If the applicant's background education has been obtained in a major subject that does not belong to the discipline of the doctoral programme in which the right to pursue doctoral studies is now applied, or if this is otherwise deemed appropriate from the perspective of carrying out the research plan, the applicant may be required to complete supplementary studies. Supplementary studies are specified by the prospective supervisor professor in the personal doctoral study plan and they shall be completed in addition to the specified studies of the doctoral programme. Applicants who have completed their degrees abroad may also be required to complete supplementary studies.

Eligibility requirement is as a rule at least cum laude approbatur or a corresponding grade from the Master's level degree. This requirement may be waived if the board of the doctoral programme so decides on the basis of the research plan. If needed, the board of the doctoral programme can request information about the applicant and research plan from the main supervisor. This written assessment is confidential.

With respect to themes of dissertations, the emphasis is on applications that concern the areas of research defined in the research mission of the department. However, applications related to other areas of research in the doctoral programme may also be approved, if a competent supervisor can be appointed for the research work. The application process is described in chapter 1.5. The main supervisor must be mainly the professor of the Department of Geographical and Historical Studies.

The doctoral programme's management group consists of permanent professors in the three disciplines of the department who have been appointed for two years at a time. The management group processes applications submitted to the faculty after each call of applications three times a year; makes proposals for the faculty on the admission of prospective students to the doctoral programme on the basis of the scientific standard and feasibility of the research plan, the achievability of the doctoral study plan, degree certificates and the statement by the supervisor; and plans the training provided in the doctoral programme in cooperation with doctoral students.

Criteria for assessing the applications include:

- Quality of the research plan: innovativeness of the research topic, feasibility of the research plan and personal study plan, clarity and implementation methods of the research plan.
- Scientific and practical relevance of the research topic.
- Performance in Master's studies or corresponding studies.
- International orientation and language skills required in the studies.
- Statement from the professor or docent proposed as main supervisor of the applicant and the research plan

The maximum number of students in the doctoral programme or the annual intake of students is not limited.

How to apply

The application procedure for the right to pursue doctoral studies is described in Chapter 1.5. The deadlines for calls for applications for the academic year 2014 - 2015 are 31 Aug 2014, 30 Nov 2014 and 30 April 2015.

Requirements for a licentiate/doctorate

According to the curriculum of the doctoral programme, the degrees consist of studies in research and professional skills (50 ECTS) agreed with the main supervisor and defined in the personal postgraduate study plan. These studies comprise subject specific studies and transferrable skills studies.

Structure of the studies

5012003 Subject specific studies 35–40 op

should be completed according to the curriculum. A student should choose 10 ECTS min – 20 ECTS max from each module:

- a) Methodology and theory of science
 - b) Scientific publishing and conferences
 - c) Research seminar and **symposium**
-

5012002 Transferrable Skills Studies 10–15 ECTS

Doctoral dissertation or Licentiate thesis

Research seminar is a compulsory study module for all the doctoral students. In addition, it is required that a doctoral student participate in at least two seminars with a variable theme related to methodology and theory of science provided by the doctoral programme once an academic year. If a doctoral student has a justified reason for not participating in the seminars and symposia, he must agree on substitute studies with his main supervisor and the director/board of the doctoral programme.

The student shall complete between 10 and 15 ECTS of transferrable skills studies according to the personal study plan. A course in research ethics must be included in the studies.

It is recommended that courses supporting the student's research project are chosen from the courses provided by the University of Eastern Finland's Doctoral School and other courses provided by the university and approved by the supervisor or from the transferable skills studies provided by national doctoral training networks. It also is recommended that studies should include courses in scientific writing and languages. Furthermore, it is recommended that studies should include courses in quantitative and qualitative methods offered by the Philosophical Faculty and/or Faculty of Social Sciences and Business Studies.

If a doctoral student has a justified reason for not participating in the courses provided by the University of Eastern Finland's Doctoral School and/or not completing studies provided by the doctoral school, substitute studies and their manner of completion must be specified in the personal study plan submitted with the application to pursue doctoral studies; or, if the problem occurs during studies, substitute studies must be agreed with the main supervisor and the director/board of the doctoral programme.

Once a year, the doctoral programme arranges a seminar with a variable theme related to transferable skills studies in co-operation with other doctoral programmes in the faculties or the national doctoral training network (between 1 and 2 ECTS). Students are expected to participate in at least two such seminars during their studies.

A maximum of 5 ECTS of this module may be completed by teaching university-level courses in the student's discipline. The number of ECTS credits awarded for this activity is assessed

by the main supervisor or the director of the doctoral programme on a case-by-case basis.

It is recommended that the general transferable skills studies are completed during the first and the second year of doctoral studies.

2.2.4.2 Life Course in Context Doctoral Programme

The doctoral programme is described in Chapter 2.2.1.1. Doctoral students of the Faculty of Social Sciences and Business Studies may complete studies in the Life Course in Context Doctoral Programme, if their research project is related to the research field of the programme.

2.2.4.3 Doctoral Programme in Well-Being and Health Research

The purpose of the Doctoral Programme in Well-Being and Health Research is to analyse structures, organisations and processes that promote well-being and public health. The main emphasis is on the following:

- social aspects affecting well-being and health
- interaction between the welfare state and health/well-being
- socio-political issues conditioned by the changes and evolution of organisations and institutional structures that affect well-being and health
- issues conditioned by civil activity, participation and community relationships as well as issues of professional expertise affecting well-being and health.

In this context, 'well-being' denotes resource-based and functional well-being as well as perceived well-being. Health is understood to be related to lifestyles and psychosocial conditions. When defined this way, health is linked to both well-being and public health.

Key themes permeating the different areas of research are the questions of social inequality and deprivation. In addition to them, the functioning of organisations associated with well-being and public health may also be studied along with themes such as sustainability and adaptability of institutions. Structural, institutional and (multi)cultural issues are linked to society at large, but also to the use of societal services (housing, education, health, social and employment services) and income transfers. With respect to organisations, the programme embraces research projects related to well-being at work and occupational health. In terms of processes, the focus is on the empowering effect of societal services and income transfers, the prevention of social exclusion and the encounters between clients and authorities. Other themes in the study of processes are issues related to the interaction between peer support, information society and welfare.

The following subjects participate in the doctoral programme (the name of the responsible person is given in brackets):

- public health (Professor Jussi Kauhanen)
- social pedagogy (Professor Juha Hämäläinen)
- social psychology (Professor Vilma Hänninen)
- social work (Professor Pauli Niemelä)
- sociology (Professor Leena Koski, Professor Juho Saari)
- social policy (Professor Eeva Jokinen)

The objective of the doctoral programme is to train postgraduate students to become qualified researchers and experts capable of working independently. The programme provides high-quality education and methodology training, adequate supervision and flexible and versatile modes of study. To ensure the consistent high quality, the ideal number of doctoral students

per supervisor should not exceed 3.5. At the moment, the supervisory staff of the doctoral programme consists of 12 supervisors (six professors and six docents).

Degrees available in the doctoral programme

The following degrees are available in the Doctoral Programme in Well-being and Health Research:

Degree	Faculty	Major subject of the degree
Doctor of Social Sciences and Licentiate of Social Sciences	Faculty of Social Sciences and Business Studies	Social pedagogy, social psychology, social work, sociology, social policy
Doctor of Health Science and Licentiate of Health Science	Faculty of Health Sciences	Public health
Doctor of Philosophy	Faculty of Social Sciences and Business Studies	Public health social pedagogy, social psychology, social work, sociology, social policy

The completion of the target degrees in Health Sciences and Social Sciences (Licentiate of Health Science, Doctor of Health Science, Licentiate of Social Sciences, Doctor of Social Sciences) requires that the student has completed a basic degree in the corresponding field. If a student with a Master's degree in social sciences studies general public health as the major subject in the doctoral studies, or vice versa, the degree to be completed is Doctor of Philosophy.

Eligibility for doctoral degree studies and admission criteria

The eligibility criteria for doctoral degree studies are described in Chapter 1.4. Students eligible for pursuing doctoral studies in the Doctoral Programme in Well-Being and Health Research have completed a Master's degree with general public health, social pedagogy, social psychology, social work, sociology or social policy as major subject or completed advanced studies in any of these subjects.

If a prospective student is applying for the right to pursue doctoral studies in any of the above major subjects and has not yet acquired a qualification that would make him/her eligible for doctoral studies, the faculty may require the student to complete supplementary studies between 25 and 40 ECTS after a proposal of the Doctoral Programme in Well-Being and Health Research. The scope and extent of any supplementary studies shall be specified when the right to doctoral studies is granted. They cannot be included in the doctoral degree.

Applicants who have completed relevant foreign studies that, in the country in question, provide eligibility for corresponding university studies, are also eligible for the doctoral programme. The degree must be completed in a field which corresponds to the major subject of the doctorate, and it must be completed by the end of the application period. A Master's degree completed abroad is considered as corresponding to a Finnish Master's degree. Degrees completed in countries which have committed to the Bologna Declaration are accepted as such. Degrees completed in other countries are assessed separately on a case-by-case basis. Foreign applicants are required to present evidence of language proficiency as specified by the Faculty of Social Sciences and Business Studies.

A prospective student eligible for the Doctoral Programme in Well-Being and Health Research is required to have a research plan and a doctoral study plan recommended by the professor of the major subject and approved by the management group of the doctoral programme. Another admission criterion is commitment of the faculty to appoint at least two supervisors one of which belongs to the supervisory staff of the Doctoral Programme in Well-Being and Health Research.

Other issues assessed by the management group of the Doctoral Programme in Well-Being and Health Research when granting admission to the programme are the following:

- The link between the theme of the research project and the profile of the Doctoral Programme in Well-Being and Health Research
- The innovativeness, feasibility, clarity and implementation methods of the research plan
- The link between the research plan and more extensive umbrella research projects
- Success in Master's studies: the grade of the Master's thesis, other grades, the time spent completing the degree
- Previous research experience and funding
- Previous publications

There are no quotas for different major subjects in the doctoral programme. If necessary, the programme may employ external reviewers.

How to apply

The application procedure for the right to pursue doctoral studies is described in Chapter 1.5. The deadlines for submitting applications to the Doctoral Programme in Well-Being and Health Research for the academic year 2014 – 2015 are 31 Aug 2014 and 28 Feb 2015.

Requirements for a licentiate/doctorate

Studies towards the degree of a Licentiate of Social Sciences, Doctor of Social Sciences, Licentiate of Science (Health Care) or Doctor of Science (Health Care) to be completed in the doctoral programme consist of a licentiate thesis or a doctoral dissertation, general transferable skills studies (between 10 and 15 ECTS) and studies in the discipline and field of research (between 35 and 40 ECTS; 50 ECTS in total).

General transferable skills studies (between 10 and 15 ECTS):

Research ethics (1 ECTS)

Other studies provided by the UEF Doctoral School (between 9 and 14 ECTS)

Studies in the discipline and field of research (between 35 and 40 ECTS):

Research seminar of the doctoral programme (15 - 20 ECTS)

Other doctoral studies in the student's specific field of research and the doctoral programme (between 15 and 20 ECTS)

Methodological studies (5 ECTS)

Academic working life skills (5 ECTS)

A doctoral dissertation or licentiate thesis

After completing general transferable skills studies, the doctoral student will be familiar with ethical principles of research and is able to discuss his/her special field of expertise in Finnish and in English. Subject-related doctoral studies reinforce the knowledge on one's scientific field and theoretical and methodological skills gained during the completion of the earlier qualification and provide capability to assume duties requiring in-depth academic expertise both in the academia and beyond.

Research seminars (10 - 15 ECTS from the following):

Research seminar in welfare and health (5 - 10 ECTS): The seminar is held twice a year. The seminar consists of expert lectures and workshops. To obtain a pass mark, the student has to present his/her research project in the seminar workshops. Participation in at least one seminar (5 ECTS) is required.

Doctoral studies seminar (5-10 ECTS): This seminar is for groups formed on the basis of major subject or research topic.

Other doctoral studies in the student's specific field of research and the doctoral programme (between 20 and 25 ECTS from the following):

Theories of well-being research (2 - 5 ECTS)

Conferences and postgraduate courses (5 - 10 ECTS)

Peer-reviewed scientific article (8 - 20 ECTS)

Scientific publication for the general public (3 - 20 ECTS)

Scientific editing (5 - 20 ECTS)

Courses in one's major or other subjects (ECTS as defined by the organizers of the course)

Methodological studies (5 ECTS from the following):

Joint methodological studies for all doctoral programmes in the faculty (5 ECTS)

Method presentation in methodology seminar or congress (2 ECTS or as defined by the organizers of the seminar)

Other methodological studies (2 -5 ECTS)

Academic working life skills (5 ECTS from the following):

Expert tasks (2 to 5 ECTS)

Organizing scientific or professional events (2 - 5 ECTS)

Acting in scientific or professional organizations or associations (2 - 4 ECTS)

Teaching related to one's own discipline or research field (2 - 10 ECTS)

Professional training related to one's discipline or research field (ECTS as defined by the organizers)

2.2.4.4 Doctoral Programme in Business

The Doctoral Programme in Business provides world-class business research expertise that transcends the traditional limits of the discipline. In the doctoral programme, doctoral students work on research projects that follows the research profile specified for both campuses and aim at the degree of Licentiate of Science (Economics and Business Administration) or Doctor of Science (Economics and Business Administration).

There are five options for doctoral students to choose from:

1. Business Studies, Innovation Management (Kuopio)
2. Business Studies, Service Management (Joensuu)
3. Business Studies, Accounting and Finance (Kuopio)
4. Business Studies, Business and Law (Joensuu)
5. Business Studies, International Business and Sales Management

Because of its contents and emphases, the doctoral programme in the University of Eastern Finland is different than the doctoral programmes in other business faculties and schools in Finland.

Doctoral studies in business studies aim at familiarising the students with the research, theories and research methods in the field in a way which qualifies the students to prepare a licentiate thesis or a doctoral dissertation. Furthermore, students strengthen their knowledge in their specific specialisation fields. The doctoral programme encourages students to take an international approach: to participate in researcher exchanges, study in foreign universities, make presentations in international conferences, publish in international journals and become members of international researcher networks.

Degrees available in the doctoral programme

The degrees available in the Doctoral Programme in Business are Licentiate of Science (Business and Administration), Doctor of Science (Business and Administration) and Doctor of Philosophy.

Eligibility for doctoral degree studies and admission criteria

The eligibility criteria for doctoral degree studies are described in Chapter 1.4.

- (1) Applicants with a Finnish Master's degree in Economics and Business Administration who have achieved as a rule the grade *very good* (cum laude approbatur) or higher for their master's thesis and the grade *very good* or higher for their major subject studies.
- (2) Applicants with a Finnish master's degree in any field who have achieved as a rule the grade *very good* (cum laude approbatur) or higher for their master's thesis and the grade *very good* or higher for their major subject studies. The applicant's research project must be related to one of the options of the doctoral programme, and the applicant must have the competencies required in this option.
- (3) Applicants who have acquired abroad a relevant degree which, in the country in question, provides eligibility for further university studies and for pursuing a doctorate. Applicants who have obtained their qualifications abroad must demonstrate their competence to pursue a research project by detailing their major studies (that include a master's thesis or other similar study project that corresponds to a master's thesis) for which, as a rule, the grade *very good* or higher has been awarded and which have been completed before applying to the doctoral programme. If the master's thesis or other study project has been written in a language other than Finnish, Swedish or English, an English summary must be attached to the application. The applicant's research project must be related to one of the options of the doctoral programme, and the applicant must have the competencies required in this option.
- (4) Applicants who have completed an internationally accredited (AMBA, AACSB) Master of Business Administration (MBA) degree, if they are able to demonstrate before applying to the doctoral programme that after completing the required supplementary studies, their major subject studies correspond to the level of the major subject studies of a Finnish master's degree in Economics and Business Administration (including a study project that corresponds to a pro gradu thesis). The applicant must attach to the application a proposal for major subject studies or studies in the option. If the master's thesis or other study project has been written in a language other than Finnish, Swedish or English, an English summary must be attached to the application. As a rule, the grade *very good* or higher must have been awarded for both the MBA degree and the supplementary studies.

- (5) Applicants with a Master's degree completed in a Finnish or foreign University of Applied Sciences who have completed a Master's thesis or other study project that corresponds to a master's thesis as part of their degree. Both the major subject studies and the study project must have been completed and awarded as a rule the grade *very good* or higher before applying to the doctoral programme. Applicants with a Master's degree from a University of Applied Sciences should take into account that the director of the doctoral programme verifies the skills provided by the earlier education, and the professor responsible for the option concerned may require that supplementary studies are to be completed.
- (6) Applicants with a licentiate degree in business and administration from a Finnish or a foreign university.
- (7) Applicants with a licentiate or a doctoral degree in a field other than business and administration from a Finnish or a foreign university. The applicant's research project must be related to one of options of the doctoral programme, and the applicant must have the competencies required in this option. If necessary, the professor responsible for the option concerned may require that supplementary studies are to be completed.
- 8) Additionally, commitment of the faculty to appoint two supervisors.
- 9) Quality of the research plan. The research topic should be scientifically and practically relevant and should suit to the main research areas of Business School. The research plan must be of high quality including e.g. the following: innovativeness of the research topic, clarity and feasibility of the research plan, consideration of issues of research ethics. Furthermore, evidence of previous research projects will be taken into account in the admission.

How to apply

The application procedure for the right to pursue doctoral studies is described in Chapter 1.5. When applying to the Doctoral Programme in Business, the research plan should, in principle, be prepared in English, as the language of the doctoral programme is English. The research topic should be chosen so that it is possible to write and publish articles on the topic in English. The research topic should be related to the focus areas of the research conducted in the Business School.

The deadlines for applications in the academic year 2014–2015 are 30 November 2014 and 30 April 2015.

Requirements for a licentiate/doctorate

The studies towards the degree of a Licentiate of Science (Business and Administration) or a Doctor of Science (Business and Administration) to be completed in the doctoral programme consist of a licentiate thesis or a doctoral dissertation, transferable skills studies (10 ECTS) and subject-related doctoral studies (30 ECTS); the total scope of the studies is 40 ECTS.

Doctor of / Licentiate in Science (Business and Administration)

Transferable skills studies, 10 ECTS

Studies in the discipline and field of research, 30 ECTS

A doctoral dissertation or licentiate thesis

Participation in research seminars is mandatory for everyone. The seminar and other courses are held in English if there are participants who do not speak Finnish. Students who do not

have the degree of Master of Science (Economics and Business Administration) may be required to complete supplementary studies (between 15 and 30 ECTS). These studies are also specified in the doctoral study plan.

The following courses are suitable for doctoral studies:

- doctoral courses (and suitable advanced studies courses) provided by the Business School
- doctoral courses (and suitable advanced studies courses) provided by the faculty
- doctoral courses (and suitable advanced studies courses) provided by other faculties and departments
- courses provided by national doctoral education programmes (The Finnish doctoral program in business studies (KATAJA), Law in a Changing World (LCW), and others)
- general doctoral courses provided by the University of Eastern Finland
- doctoral courses, summer schools and seminars organised by foreign universities

Transferable skills studies, 10 ECTS

Research Methodologies and Methods 6 ECTS

Academic Writing, max 6 ECTS

Philosophy of Science and Research Ethics, max 6 ECTS

Other doctoral level courses provided by graduate schools and universities

Studies in the discipline and field of research, 30 ECTS

5214900 Accounting and Finance, 30 ECTS

Courses on Accounting and Finance Theory and Research

5214902 Research Seminar for Doctoral Students, Accounting and Finance 6 ECTS (compulsory course, active participation during two academic years, research presentation every semester)

5214907 Research Methods Related to Own Research Project, 6 ECTS

5214904 Financial Accounting Theory, 6 ECTS

5214905 Management Accounting Theory, 6 ECTS

5214906 Corporate Finance Theory, 6 ECTS

5212906 Advanced Financial Statement Analysis, 6 ECTS

5214908 Empirical Corporate Finance, 6 op

5214910 Other Accounting and Finance Related Doctoral Level Courses

5212900 Business and Law, 30 ECTS

Courses on Business and Law Theory and Research

5212902 Research Seminar for Doctoral Students, Business and Law 6 ECTS (compulsory course, active participation during two academic years, research presentation every semester)

5212908 Research Methods Related to Own Research Project, 6 ECTS

5212903 Research Traditions in Business and Law, 6 ECTS

5214904 Financial Accounting Theory, 6 ECTS

Theoretical studies in Law according to Doctoral Programme in Law, Min 10 ECTS

5212906 Advanced Financial Statement Analysis, 6 op

5212907 Business Law Theory, 6 op

5212910 Other Business and Law Related Doctoral Level Courses

Innovation Management, 30 ECTS

Courses on Innovation Management Theory and Research

- 5213902 Research Seminar for Doctoral Students, Innovation Management 6 ECTS (compulsory course, active participation during two academic years, research presentation every semester)
- 5213908 Research Methods Related to Own Research Project, 6 ECTS
- 5213903 Research Traditions in Innovation Management, 6 ECTS (compulsory course) or
- 5213904 Management and Organization Theory, 6 ECTS
- 5213905 Strategic Management Theory, 6 ECTS
- 5211904 Marketing Theory, 6 ECTS
- 5213323 Health and Wellbeing Business, 6 ECTS
- 5213910 Other Innovation Management Related Doctoral Level Courses

Service Management, 30 ECTS

Courses on Service Management Theory and Research

- 5211902 Research Seminar for Doctoral Students, Service Management 6 ECTS (compulsory course, active participation during two academic years, research presentation every semester)
- 5211905 Research Methods Related to Own Research Project, 6 ECTS
- 5211903 Research Traditions in Service Management, 6 ECTS
- 5211904 Marketing Theory, 6 ECTS
- 5213904 Management and Organization Theory, 6 ECTS
- 5211906 Leadership and Organizational Change, 6 ECTS
- 5211907 Research on Tourism and Leisure Business, 6 ECTS
- 5211910 Other Service Management Doctoral Level Courses

International Business and Sales Management, 30 ECTS

Courses on International Business and Sales Management Theory and Research

- 5216902 Research Seminar for Doctoral Students, International Business and Sales Management (compulsory course) 6 ECTS
- 5216908 Research Methods Related to Own Research Project, 6 ECTS
- 5216903 Research Traditions in International Business and Sales Management 6 ECTS (compulsory course)
- 5213904 Management and Organization Theory, 6 ECTS
- 5213905 Strategic Management Theory, 6 ECTS
- 5211904 Marketing Theory, 6 ECTS
- 5216910 Other International Business and Sales Management Related Doctoral Level Courses

Persons responsible for the doctoral programme

- innovation management: Professor Mika Gabrielsson
- service management: Professor Tommi Laukkanen
- accounting and finance: Professor Mervi Niskanen
- business and law: Professor Matti Turtiainen
- professor coordinating doctoral studies in the department: Professor Mika Gabrielsson

2.2.4.5 Doctoral Programme in Social and Cultural Encounters

The doctoral programme is described in Chapter 2.2.1.4. Doctoral students of the Faculty of Social Sciences and Business Studies may complete studies in the Doctoral Programme in Social and Cultural Encounters, if their research project is related to the research field of the programme.

2.2.4.6 Natural Resources, Environment and Society Doctoral Programme

The Natural Resources, Environment and Society Doctoral Programme is an international, interdisciplinary programme that provides and coordinates English doctoral studies in the field of social and cultural research of natural resources and the environment. The purpose is to strengthen the international research orientation in the field, build interdisciplinary methodological and theoretical skills and provide an attractive programme for both Finnish and international doctoral students. In the field of environment, special interests in the programme are issues concerning climate and the environment, the use of natural resources, and human relationship with nature and animals.

The Natural Resources, Environment and Society Doctoral Programme provides capacity to work in interdisciplinary research teams and take up multidisciplinary expert duties. The programme strongly supports students' networking activities also on an international level.

The Natural Resources, Environment and Society Doctoral Programme is a joint effort by three faculties of the University of Eastern Finland: Faculty of Social Sciences and Business Studies, Philosophical Faculty and Faculty of Science and Forestry. The programme organises courses and seminars in its thematic areas and invites visiting foreign lecturers in cooperation with the Institute for Natural Resources, Environment and Society (LYY) and various academic subjects. In addition, the programme organises events and courses for doctoral students in cooperation with departments' doctoral programmes and international partners.

Degrees available in the doctoral programme and degree requirements

Degree	Faculty	Field of education
Doctor/Licentiate of Administrative Sciences Doctor of Philosophy <ul style="list-style-type: none">• Environmental law	Faculty of Social Sciences and Business Studies	Social Sciences
Doctor/Licentiate of Law Doctor of Philosophy <ul style="list-style-type: none">• Environmental law	Faculty of Social Sciences and Business Studies	Law
Doctor/Licentiate of Philosophy <ul style="list-style-type: none">• General history• Finnish history• Geography	Faculty of Social Sciences and Business Studies	Humanities and Natural Sciences
Doctor/Licentiate of Social Sciences Doctor of Philosophy <ul style="list-style-type: none">• Human geography• Environmental policy	Faculty of Social Sciences and Business Studies	Social Sciences
Doctor/Licentiate of Education <ul style="list-style-type: none">• Adult education, Education	Philosophical Faculty	Educational Science

Doctor/Licentiate of Philosophy	Philosophical Faculty	Humanities
<ul style="list-style-type: none"> • Cultural research • Folklore studies • Literature • Finnish language • English language and culture 		
Doctor of Philosophy	Philosophical Faculty	Educational Science
<ul style="list-style-type: none"> • Adult education, Education 		
Doctor of Philosophy	Faculty of Science and Forestry	Forestry
<ul style="list-style-type: none"> • Forestry 		
Doctor/Licentiate of Science (Agriculture and Forestry)	Faculty of Science and Forestry	Forestry
<ul style="list-style-type: none"> • Forestry 		

*) Post-graduate students who have already been given the right to pursue the degree of Doctor of Administrative Sciences (D.Sc. (Admin.)) prior to 1st August 2013, however, may complete the degree. After this date, new students are not accepted to pursue this degree.

An eligible applicant in Public Law and Law for right to pursue a doctoral degree in law (LL.D.) must have completed a LL.M. degree or some other corresponding Master's degree. Furthermore, in the evaluation of the application attention will be paid to the applicant's success in prior studies (especially in regard to the merits and grade of his/her Master's thesis), possible publishing activities, and the quality of the research plan. An applicant whose earlier degrees do not contain sufficient studies in law is required to complete supplementary studies before being granted the right to pursue doctoral studies. The content of these studies is decided by the board of the doctoral programme.

An eligible applicant in Public Law and Law for right to pursue a doctoral degree in philosophy (Ph.D.) must have completed a higher university degree that includes a sufficient amount of appropriate legal studies that lend support to the completion of the doctoral thesis. In the evaluation of the sufficiency of legal studies special attention will be paid to the amount of methodological and theoretical studies, as well as to the relationship between the legal studies and the topic of the doctoral thesis. Furthermore, in the evaluation of the application attention will be paid to the applicant's success in prior studies (especially in regard to the merits and grade of his/her Master's thesis), possible publishing activities, and the quality of the research plan. An applicant whose earlier degrees do not contain sufficient studies in law is required to complete supplementary studies before being granted the right to pursue doctoral studies. The content of these studies is decided by the board of the doctoral programme.

Doctoral students in Public Law and Law who already have been accepted into the doctoral programme to pursue the degree of Sc.D. (Admin.) or Ph.D., may apply for the right to pursue the degree of LL.D. if the eligibility criteria for this degree are met. Grounds for the change of the pursued degree must be provided in the application. If the application is approved, all prior doctoral studies are fully credited.

In case a PhD student wants to change his/her major in the Doctoral Programme, he/she should write a free-form application to the Head of Academic and Student Affairs of the Faculty of Social Sciences and Business Studies. The application should include personal details, contact information, current and applied major, and current and applied target degree. Grounds for the change of the major must be provided in the application. It is possible to apply

for the right to change the major four times a year (deadlines for applications for the academic year 2014–2015 are 29th August, 28th November, 27th February and 30th April). The individual study plan should be updated when the major is changed.

Eligibility for doctoral degree studies and admission criteria

The eligibility criteria for doctoral degree studies are described in Chapter 1.4. An eligible applicant to the Natural Resources, Environment and Society Doctoral Programme must have completed Master-level degree in an applicable field. The main supervisor will evaluate the applicability of the degree and the need of the supplementary studies.

Depending on the applicant's background education, supplementary studies of up to 60 ECTS may be required. These studies are not included in the doctoral degree, but provide competence for studies leading to the degree. Supplementary studies shall be specified individually for each student on the basis of earlier degrees and studies.

In Public Law and Law, the Master's thesis of a doctoral studies applicant must have been awarded the grade of cum laude approbatur or higher. This requirement may be waived if the board of the doctoral programme so decides. Applicants may demonstrate their eligibility for doctoral studies also by means of a research plan.

The principal theme (or one of them) of the research project of an eligible applicant to the Natural Resources, Environment and Society Doctoral Programme should be in the field of social and cultural study of natural resources and the environment.

Other criteria for assessing the applications include:

- Quality of the research plan: innovativeness of the research topic, feasibility, clarity and implementation methods of the research plan.
- Scientific and practical relevance of the research topic.
- Evidence of any previous research projects, e.g. working as a researcher or research funding obtained.
- Performance in Master's studies or corresponding studies.
- International orientation and language skills required in the studies.

How to apply

The application procedure for the right to pursue doctoral studies is described in Chapter 1.5. The deadlines for applications for the academic year 2014–2015 are 31 August 2014, 30 November 2014, 28 February 2015 and 30 April 2015.

Those wishing to apply for the right to pursue doctoral studies should first fill out a pre-information form (www.uef.fi/lyy/application-procedure).

After having received feedback she/he should contact one of the supervisors or the director of the doctoral programme for discussing the topic of the research project to be pursued, other potential supervisors and the preparation of the doctoral study plan and research plan. The supervision practice of the doctoral programme is in accordance with the Degree Regulations of the university. There must be at least two supervisors, and one of them must be a professor in the doctoral programme or the University of Eastern Finland. The Faculty of Science and Forestry has given detailed instructions on the qualification of the supervisors.

After the supervising professor has recommended the research plan and the study plans, the applicant may fill in the application form for pursuing doctoral studies at the university. The attachments of the form are a research plan, a personal study plan, the required degree certificates and any other certificates that may be considered when making the decision.

If necessary, professors in the doctoral programme may help in preparing the research plan.

Applications for the right to pursue doctoral studies will be processed and assessed by the management group of the doctoral programme. Applicants may be interviewed when the assessment is made. The management group of the doctoral programme makes a proposal on approving or rejecting the application to the faculty, which makes the final decision. The faculty communicates the decision to the applicant in writing.

Degree requirements

For students of the Faculty of Social Sciences and Business Studies: Licentiate of Administrative Sciences, Doctor of Administrative Sciences, Licentiate of Law, Doctor of Law; for students of the Philosophical Faculty: Licentiate of Education, Doctor of Education or Doctor of Philosophy (Education):

Studies (50 ECTS in total):

Studies in the discipline and field of research: 40 ECTS

Transferable skills studies: 10 ECTS

A doctoral dissertation or a licentiate thesis

For students of the Faculty of Social Sciences and Business Studies: Licentiate of Philosophy, Doctor of Philosophy, Licentiate of Social Sciences, Doctor of Social Sciences; for students of the Philosophical Faculty: Licentiate of Philosophy or Doctor of Philosophy (Humanities):

Studies (50 ECTS in total):

Studies in the discipline and field of research: between 35 and 40 ECTS

Transferable skills studies: between 10 and 15 ECTS

A doctoral dissertation or a licentiate thesis

Students of the Faculty of Science and Forestry: Licentiate of Science (Agriculture and Forestry), Doctor of Science (Agriculture and Forestry), Doctor of Philosophy (Forestry):

Studies (40 ECTS in total):

Studies in the discipline and field of research: 32 ECTS

Transferable skills studies: 8 ECTS

A doctoral dissertation or a licentiate thesis

In the Natural Resources, Environment and Society Doctoral Programme, studies that support the student's research project and professional competence depend on the degree to be completed. The personal study plan and any changes to it should be prepared together with the main supervisor, and they should be approved by the board of the doctoral programme or the Dean.

Studies supporting the research project and professional competence that are required for the degree of a licentiate or a doctor comprise the following elements:

Studies supporting the research project and professional competence, between 40 and 50 ECTS in total. Extent of the studies is decided/verified by the main supervisor and is based on the requirements of the faculty / field of education which gives the degree.

(A) 5012002 General transferable skills studies (between 8 and 15 ECTS)

General transferable skills studies may be chosen from the courses provided by the University of Eastern Finland's Doctoral School or other doctoral programmes. In addition, the studies may also include courses provided by national networks and other universities, if they are included in the personal study plan. It is strongly recommended that a course in research ethics is included in these studies. General transferable skills studies must include studies on research ethics and project management e.g. courses organised by the UEF Doctoral School: 1145003 Research Ethics 1 ECTS and 1145013 International Research Projects and Co-operation 3 ECTS).

Extent and content of the studies is agreed with the main supervisor when the personal study plan is made. The general transferable skills studies have to be at least 8 ECTS for students of the Faculty of Science and Forestry and at least 10 ECTS for other students.

(B) Studies in the discipline and field of research (between 32 and 40 ECTS)

Studies in the discipline and field of research can be freely compiled from elements described in chapters 2.1 and 2.2. Participation in the post graduation seminar is obligatory. The studies should support the doctoral dissertation or the licentiate thesis. Content of the studies is agreed with the main supervisor when the personal study plan is made. Studies in the discipline and field of research have to be at least 32 ECTS for students of the Faculty of Science and Forestry and 35-40 ECTS for other students. Recommended courses are listed on the website of the doctoral programme.

B.1 Post graduate seminar (at least 5 ECTS)

Doctoral students shall participate actively in the interdisciplinary research and doctoral studies seminars of the Natural Resources, Environment and Society Doctoral Programme. In addition, they may participate in the research and doctoral studies seminars in other applicable fields.

In the seminars, the doctoral student presents a research plan, reports on the progress of the research project and participates in the discussion on research topics.

Studies may also include participation to and preparation of reports on lectures by high-level visiting researchers. Students have a lecture pass in which participation in visiting lectures is indicated, and the main supervisor or the director of the doctoral programme decides the number of ECTS awarded for these studies.

B.2. Other studies in the discipline and field of research

Extent of the studies is assessed by the main supervisor and is based on the requirements of the faculty/ field of education which gives the degree,

B.2.1 Methodology and theory of science

Methodology and theory of science consists of theory and methodology studies in the area of science and the academic subject or interdisciplinary theory and methodology studies linked to social and cultural study of natural resources and the environment.

Studies may include seminars and courses provided by the doctoral programmes and departments of the University of Eastern Finland. Relevant courses provided by international and national doctoral programmes and scientific networks may also be accepted to the study plan.

Studies may be complemented by sitting book examinations or preparing essays on the subject for the professors of the doctoral programme. Books may be agreed with the main supervisor.

B.2.2 Subject-related doctoral studies

The purpose of subject-related doctoral studies is that doctoral students obtain in-depth knowledge of their own field of research and its scientific and societal significance as well as the capability to apply scientific research methods and generate new information independently and from a critical perspective within the sphere of their research field. Subject-related doctoral studies develop doctoral students' skills in writing scientific texts and participate in academic discussion.

The studies may contain:

- doctoral courses or intermediate and advanced studies in the research field
- essays and book exams based on works in the research field
- publication of a scientific article or a presentation or a poster in a scientific conference
- expert duties in the research field (teaching, participation in research exchanges)

Scientific articles prepared and published after the Master's degree (or corresponding degree) may count towards the doctoral degree if they meet the following conditions:

The doctoral student is the single or the first author of the article.

The article is not part of a doctoral dissertation consisting of articles.

Participation in a scientific conference may be included in the studies if the student holds a presentation in or has prepared a poster in his/her area of research for the conference or acts as the chair of a workshop.

Teaching and expert duties may be included in the doctoral studies if they are approved by the professor supervising the doctoral studies. Teaching may only be included if the course taught is related to the doctoral student's field of research and is a university-level course.

The form, requirements and assessment of a doctoral dissertation or a licentiate thesis follow the requirements of the faculty in which the degree is completed.

2.2.4.7 Doctoral Programme in Law

The doctoral degrees available at the Department of Law are Doctor of Law (LL.D.) and Doctor of Philosophy (Ph.D.).

Post-graduate students, who have been given the right to pursue the degree of Doctor of Administrative Sciences (D.Sc. (Admin.)) prior to 1st August 2013, may complete the degree. After this date, new students are not accepted to pursue this degree.

The major subject of the degrees Doctor of Law and Doctor of Philosophy may be one of the following: financial law, European law, administrative law, international law, commercial law, legislative studies, law and economics, family and inheritance law, procedural law, criminal law, civil law, social welfare law, labour law, constitutional law, general jurisprudential studies or environmental law.

Eligibility for doctoral degree studies and admission criteria

An eligible applicant for the right to pursue doctoral degree in law (LL.D.) must have completed a LL.M. degree or some other masters' degree corresponding to it. Furthermore, in the evaluation of the application attention will be paid to the applicant's success in prior studies (especially in regard to the merits and grade of his/her master's thesis), possible publishing activities, and the quality of the research plan. An applicant whose earlier degrees do not contain sufficient studies in law is required to complete supplementary studies before granting the right to pursue doctoral studies. The content of these studies is decided by the board of the doctoral programme.

An eligible applicant for the right to pursue doctoral degree in philosophy (Ph.D.) must have completed a higher university degree that includes a sufficient amount of appropriate legal studies which lend support to the completing of the doctoral thesis. In the evaluation of the sufficiency of legal studies special attention will be paid to the amount of methodological and theoretical studies as well as to the relationship between the legal studies and the topic of the doctoral thesis. Furthermore, in the evaluation of the application attention will be paid to the applicant's success in prior studies (especially in regard to the merits and grade of his/her master's thesis), possible publishing activities, and the quality of the research plan. An applicant whose earlier degrees do not contain sufficient studies in law is required to complete supplementary studies before granting the right to pursue doctoral studies. The content of these studies is decided by the board of the doctoral programme.

The master's thesis of a doctoral student applicant should have been awarded the grade of *cum laude approbatur* or higher. This requirement may be waived if the board of the doctoral programme so decides. Applicants may demonstrate their eligibility for doctoral studies also by means of a research plan.

Doctoral students who have already been accepted in the doctoral programme to pursue the degree of Sc.D. (Admin.), may apply the right to pursue the degree of LL.D. if their eligibility criteria for this degree are met. Grounds for the change of the pursued degree must be provided in the application. If the application is approved, all prior doctoral studies are fully credited.

How to apply

The application procedure for the right to pursue doctoral studies is described in Chapter 1.5. Before submitting an application, an applicant must contact a professor of the Law School who represents the applicant's field of research. The applicant should enquire about the professor's willingness to act as his/her supervisor in case the application is accepted. The standard length of a research plan is approximately ten pages, and it must detail the following:

- Background of the research project, the meaningfulness and scientific relevancy of the chosen topic, and any earlier studies related to the theme.
- Objectives of the research project; research tasks and questions.
- Research methods and materials and the processing of the materials.
- A work plan and plans for subtasks; particularly in case of doctoral dissertations consisting of articles, it is important to describe the parts from which the study consists and which serve as the basis for reporting.
- Planned schedule and funding.
- Publication plan.
- An assessment of the potential uses and the social significance of the research results.

The decision on admissions is made by the Dean of the faculty on the basis of a statement by the management group of the doctoral programme. Applicants must present their research plans orally in the meeting of the management group in the middle of October, March or May. The management group also interviews the applicants and gives feedback on the research plan. Applicants should verify the board's meeting day with the coordinator of the doctoral programme when submitting their application documents.

The management group of the doctoral programme reviews the applicant's previous studies, research plan and interview to assess whether the applicant has adequate general theoretical and methodological skills for the planned doctoral studies. In its statement, the management group recommends or does not recommend that the application to pursue doctoral studies should be approved. The management group may require that the research plan should be developed further before a recommendation may be given; in this case, the application is shelved until the management group's next meeting.

After a recommendation from the board, two supervisors are appointed to the task of supervising the applicant's research *project*. Before taking up the task, supervisors may require that the applicant edits the research plan or the doctoral study plan after the board has processed it. If it is not possible to appoint supervisors because, for example, the number of doctoral students is too large, the application cannot be recommended.

In the Doctoral Programme in Law, the right to pursue doctoral studies may be applied three times a year:

- 31 August (the application is presented and the applicant is interviewed by the board of the doctoral programme in mid-September)
- 28 February (the application is presented and the applicant is interviewed by the board of the doctoral programme in mid-March)
- 30 April (the application is presented and the applicant is interviewed by the board of the doctoral programme in mid-May)

The structure of doctoral studies

The degrees include 50 ECTS of studies supporting the research project and professional competence. The objective is to familiarise the student with the research, theories and research methods in the field to qualify the student to prepare a licentiate thesis or a doctoral dissertation.

The doctoral study plan specifies the courses which can be included in the studies supporting the research project and professional competence (50 ECTS). The 50 ECTS consists of 25 ECTS of general theoretical and methodological studies in the field of law, 15 ECTS of in-depth specialisation studies in the student's specific field of research and 10 ECTS of general transferable skills studies.

Studies supporting the research project and professional competence (50 ECTS) must be completed and registered as completed before the doctoral dissertation is submitted for preliminary examination.

5312101 Studies supporting the research project and professional competence (50 ECTS)

GENERAL STUDIES (25 ECTS) – Theoretical and methodological competence

I. Theoretical and methodological studies

1. Exam on Legal Methodologies (5312103, 5 ECTS)
2. Classics of Legal Theory (5311918, 5 ECTS)
3. Philosophy of Law (5311922, 5 ECTS)
4. Comparative Law (5311923, 5 ECTS)
5. Historical, Theoretical, and Axiological Foundations of the European Legal Culture (5311924, 5 ECTS)

II. Participation in Department's Doctoral Seminar (5312105, 5 ECTS)

III. Participation in Other Academic Research Activities (5312211, 5 ECTS)

SPECIALISATION (15 ECTS) – Familiarisation with the student's specific field of research

Specialisation studies shall be completed in the major subject of doctoral studies. In the degrees of Licentiate of Administrative Sciences and Doctor of Administrative Sciences, the major subject may be one of the following: European law, financial law, administrative law, law & economics and legislative studies, criminal law and judicial procedure and criminology, civil law, constitutional law or environmental law. In the degrees of Licentiate of Law and Doctor of Law, the major subject may be one of the following: financial law, European law, administrative law, international law, commercial law, legislative studies, law and economics, family and inheritance law, procedural law, criminal law, civil law, social welfare law, labour law, constitutional law, general jurisprudential studies or environmental law.

Completion of specialisation studies is approved by the professor of the subject. The ECTS awarded for study attainments listed below serve as a guide; they are not mandatory.

- Literature, specialisation (5312106)
- Publications (5312107)
- Conferences (5312108)

GENERAL TRANSFERABLE SKILLS STUDIES (10 ECTS) – Teaching and specialist duties

Teaching and specialist duties (5312109)

5312102 LICENTIATE THESIS

5312201 DOCTORAL DISSERTATION

The general quality of a licentiate thesis or a doctoral dissertation shall be assessed according to the following criteria in particular:

1. Relevancy of the research task and the appeal of the research problem: Assessment emphasises the innovativeness and scientific relevancy of the research task.

2. Level of sophistication and the management of methods necessary for research: Assessment pays special attention to the skills necessary for complementing the research task. Sophistication means both adequate expertise in the field of research and the student's general knowledge and understanding of the academic subject and the area of research.
3. Practical implementation of the research project: Assessment focuses on the functionality of the structure of the study, the delimitation of the scope, the degree of sophistication in finishing and the stylistic aspects.
4. Results of the research project, their novelty, validity and importance: In the field of law, results of a research project cannot often be distinguished from other elements of research, as this is a matter of different interpretations and their justification. This further highlights the importance of overall assessment.
5. The author's ability to defend the research project in public: An integral part of a presentation of a doctoral dissertation or a licentiate thesis is that the author is able to defend appropriately the work in public. A licentiate thesis or a doctoral dissertation may be approved if it meets the minimum requirements of each criterion. The grades for a licentiate thesis or a doctoral dissertation are *approbatur*, *lubenter approbatur*, *non sine laude approbatur*, *cum laude approbatur*, *magna cum laude approbatur*, *eximia cum laude approbatur* and *laudatur*. The subject and the grade of the licentiate thesis or a doctoral dissertation are indicated in the degree certificate.

Supervision of doctoral students

Two supervisors are appointed for each doctoral student. The supervisors are appointed after the board of the doctoral programme has decided to recommend the student's application for pursuing doctoral studies. A supervision agreement shall be drafted between the doctoral student and the supervisors, and the tasks of the supervisor, the doctoral student, the department and the doctoral programme are specified as follows:

THE ROLE OF THE SUPERVISOR:

1. The supervisor shall ensure that the various elements of supervision are observed throughout the research project. This means that the supervisor is expected to recognise the individual needs of doctoral students and to motivate and encourage them throughout their research project. The supervisor is also committed to developing his/her skills and expertise as a supervisor.
2. The supervisor shall be genuinely committed to the project to be supervised. Before agreeing to act as a supervisor, the supervisor assesses his/her possibilities and resources for working as a supervisor, considering his/her expertise, earlier supervision tasks and other duties. The supervisor helps the doctoral student in arranging funding for the project.
3. The supervisor supports the doctoral student's independence and development as a researcher and as an expert; in other words, the student's growth as a member of the research community. The supervisor may, for example, encourage the doctoral student to publish results of the study project during the doctoral studies; offer the student teaching tasks related to the student's research topic; help the student in networking activities both in Finland and abroad; contribute to ensuring that the student receives enough feedback and support from peers; contribute to ensuring that the student has adequate links to the practical world of work; and instruct the student to make preparations for the public examination of the doctoral dissertation.

4. The supervision of the research project shall be based on close interaction between the supervisor and the student. The supervisor meets the doctoral student several times a year; within a reasonable time carefully reads the texts and other materials provided by the student; gives instructive and sincere feedback; and provides guidance in scientific writing.
5. The supervisor observes the principles of research ethics in all supervisory tasks. This means, for example, that the supervisor directs the doctoral student's attention towards aspects of research ethics and the rules of scientific writing; does not exploit the student's research results and keeps in mind that a finished doctoral dissertation is not authored by the supervisor but by the doctoral student.
6. If problems occur, the supervisor is committed to solving them together with the other supervisor and the student. The supervisor does not object if the doctoral student wishes the supervision arrangement to be changed. The supervisor may request to be exempted from the task if the supervising relationship does not function properly, in spite of efforts to improve it.

THE ROLE OF THE DOCTORAL STUDENT:

1. The doctoral student shall be genuinely committed to the research project. The student should aim for the highest scientific quality obtainable, strive to improve him/herself as a researcher and as an expert and always follow the rules of research ethics.
2. The doctoral student supports the systematic progress of the research project. The student should strive to stay on schedule; keep track of the supervision activities by, for example, preparing summaries of the main contents of supervision meetings and submitting them to the supervisor; inform the supervisor of any changes in plans or the research task; and contact the supervisor if the student is of the view that the supervision activities need improvement. If problems occur, the solution should first be sought between the doctoral student and the supervisor, and if a satisfactory solution is not found, the doctoral student and the supervisor may contact the board of the doctoral programme.

THE ROLE OF THE DEPARTMENT AND THE BOARD OF THE DOCTORAL PROGRAMME:

1. The Department of Law shall ensure that doctoral students working in the department are not unduly burdened with administrative tasks and that they can have the annual holidays outlined in the department strategy.
2. The department strives to divide the teaching responsibilities of the doctoral students working in the department so that the teaching is related to the students' specific fields of research.
3. The board of the doctoral programme processes students' applications to pursue doctoral studies before the Dean makes a decision on them, and provides feedback to the students.
4. The management group of the doctoral programme asks, on a regular basis, the doctoral students to provide feedback, and develops the contents and supervision practices of the department's doctoral programme.
5. The board of the doctoral programme strives to find solutions to problems in doctoral studies and supervision relationships.

2.2.4.8 Doctoral Programme in Social and Health Management

The purpose of the Doctoral Programme in Social and Health Management is to provide high-standard researcher training to doctoral students whose research themes are related to management and leadership, decision-making, organisation, economics and information manage-

ment of social and health care. The doctoral programme trains researchers and experts with the capacity to work both independently and in interdisciplinary research teams mainly in the various research, development and administrative tasks of social and health care. The purpose of the doctoral programme is to promote doctoral students' international activities by encouraging students to participate in researcher exchanges, complete studies abroad, make presentations in international conferences, publish in international publications and participate in international researcher networks.

The academic subjects in the doctoral programme (the name of the responsible person is given in brackets):

- social management science (Professor Vuokko Niiranen)
- health and human services informatics (Professor Kaija Saranto)
- health management science (Professor Jari Vuori)
- health economics (Professor Hannu Valtonen)
- economics (Professor Mika Lindén)

Degrees available in the doctoral programme

The degrees available in the Doctoral Programme in Social and Health Management are the Licentiate of Science (Health Care), Doctor of Science (Health Care) and Doctor of Philosophy with health management science, health economics and health and human services informatics as major subject. In social management science, economics and health and human services informatics, the degrees available are the Licentiate of Social Sciences, Doctor of Social Sciences and Doctor of Philosophy.

Eligibility for doctoral degree studies and admission criteria

The eligibility criteria for doctoral degree studies are described in Chapter 1.4. An eligible applicant for the doctoral programme has completed a Master's degree or a corresponding foreign degree in a relevant field focusing on management and leadership, economics or informatics and has acquired the necessary skills and abilities for participating in doctoral studies.

An applicant has the necessary skills and abilities for doctoral studies if applying the right to pursue doctoral studies in a subject in which he/she has completed advanced studies. If the applicant's background education has been completed in a different field, the applicant may be required to complete supplementary studies of up to 60 ECTS. The decision on supplementary studies is made at the same time when the student is admitted. Supplementary studies are not included in the licentiate or doctoral degree, but support the completion of these degrees. They are specified individually for each student on the basis of previous studies and degrees completed. Supplementary studies will be specified during the first academic year, and they should be in line with the personal study plan.

In student selections, attention is paid to the following criteria:

- the scientific and practical relevance of the research project and its suitability to the themes of the programme
- the quality of the research plan: innovativeness of the research topic, feasibility of the research plan, and
- the clarity and implementation methods of the research plan, the consideration of issues of research ethics
- evidence of previous research projects
- adequate performance in Master's studies or corresponding studies (grade: very good)

- international orientation (such as publications and conferences) and language skills required in the studies

Other criteria to be considered in selection are that the doctoral programme shall have sufficient resources for supervising the student and that at least two supervisors can be appointed for every student.

How to apply

The application procedure for the right to pursue doctoral studies is described in Chapter 1.5. Applicants to the Doctoral Programme in Social and Health Management should include the following in their research plan:

- the background of the research, theoretical justifications and the link of the topic to earlier research
- the objectives of the research project, research tasks and questions
- the research methods and materials and the processing of the materials
- a work plan and plans for sub-tasks. Particularly in case of doctoral dissertations consisting of articles, it is important to describe the parts from which the study consists and which serve as the basis for reporting.
- a schedule and funding plans
- a publication plan
- an assessment of the potential uses and the social significance of the research results
- a discussion of the ethical aspects of the research project.

The standard length of the research plan is approximately ten pages. In the academic year 2014 – 2015 the deadline for applications to the Doctoral Programme in Social and Health Management is 28 February 2015.

The structure of the licentiate/doctorate

Degrees completed in the doctoral programme include a licentiate thesis or a doctoral dissertation and at least 50 ECTS of theoretical, methodological and professional studies.

A. General transferable skills studies (15 ECTS minimum)		op
5424000	Fundamentals of academic research	3
8010060	English for postgraduate students	4
It is recommended to take some of the following general postgraduate courses of the university doctoral school: Information skills for postgraduate students, Conference English, Methods and History of Science._		
B. Studies in science and field of research, (35 ECTS minimum), all obligatory		
5424001	Postgraduate research seminar in main subject	8
5424002	Readings for postgraduate students 1	6
5424003	Advanced readings in research theme	6
5424008	Scientific communication	5
5424004	Studies in quantitative and/or qualitative research methods	10

2.2.4.9 Doctoral Programme in Social Work and Social Services

The *vision* of the Doctoral Programme in Social Work and Social Services is to offer high quality research training to postgraduate students whose research addresses social problems encountered in social work, social activity and interaction of humans, professional development of social work, impact of social work, organisation of social services, or issues relating to social security in the context of a welfare state.

The *mission* of the doctoral programme is to train researchers and experts for research, development and administrative positions in the field social work and social services. Research and development addressing the practices of various preventive interventions and empowerment efforts which maintain an individual's social ability to function and life management stand at the core of social work. There is a growing demand for this type of expertise, as the structures associated with a welfare state are becoming weaker and changes in society take place at an increasing speed. In addition to social work, the questions of expertise affect the multi-professional systems of welfare in general.

The *scope of research* in the field social work covers clients' psycho-social problems, the working practices used in social work, the field's theoretical self-understanding, as well as administration, management and development of social work. Research focuses on the micro-social processes of vulnerability, insecurity and lack of participation as well as on the nature and conditions of the work seeking to alleviate these. In a wider context, research on social problems also focuses on the structural mechanisms of poverty, exclusion and inequality, and on the social policy interventions seeking to alleviate these. Versatile research and theoretical knowledge base of social sciences, multidisciplinary research frames as well as cooperation between disciplines are needed in this context.

The doctoral programme is closely linked to the research of well-being at the University of Eastern Finland, the main emphasis being in the research of social work and social services. Social work, in particular, focuses on the following research fields:

- *Social work among children, young people and families* focuses on child protection, children's rights and childhood risks, as well as on the means and opportunities of social work to address problems with the help of psycho-social methods.
- Rehabilitative and health social work which targets the empowerment and health of the elderly, the disabled, the ill, the substance abusers as well as people with violent behaviour. Focus also lies on the statutory processes in social empowerment efforts carried out by health care organisations.
- *Social work methods, ethics and theory* which embody the professional management system and social-work related values, norms and ethics as well as the evaluation of the effectiveness of working practices. Social work requires comprehensive social science theories and methods of application when addressing social phenomena and social conditions.

The doctoral programme presents opportunities to conduct research in numerous areas of social sciences research, including social and welfare services. Currently, the list of supervisors available to students in the doctoral programme includes some 60 experts nationwide, and 10 experts at the University of Eastern Finland. The supervisors are professors, senior lecturers, docents and researchers.

The doctoral programme trains researchers and experts capable of working independently.

Degrees available in the doctoral programme

The following table lists the postgraduate degrees and major subjects available in the doctoral programme.

Degree	Major subject
Doctor of Social Sciences / Doctor of Philosophy and Licentiate of Social Sciences	Social work, Social pedagogy, Social psychology, Social policy Social work, Social pedagogy, Social psychology, Social policy

Eligibility for doctoral education and student admission criteria

Eligibility for doctoral education comes from the Finnish legislation, requirements are defined in the Chapter 1.4.

The students are admitted on the basis of the degrees and studies, research topic and research plan as well as demonstrated experience of research work. The admission criterion is a higher university degree in social sciences, behavioural sciences, the humanities or health sciences or the corresponding foreign degree.

Moreover, when selecting postgraduate students to the programme, the following things are evaluated:

- Quality of the research proposal: innovativeness of the research topic; feasibility, clarity and implementation of the research proposal.
- General scientific and practical relevance of the research topic and its linkage to the research profile of the doctoral programme: the latter criterion seeks to assure sufficient expertise for the supervision of the licentiate thesis or doctoral dissertation.
- Demonstrated experience in research work: for example grade of the master's degree, working as a researcher or acquired research funding.

Besides the degrees available within the doctoral programme, students can also complete a professional-scientific licentiate degree in special social work. The content of this training is defined separately (organised by SOSNET, the Finnish National University Network for Social Work).

How to Apply

The application procedure for doctoral studies is described in detail in Chapter 1.5. The application deadlines for the academic year 2014 – 2015 are 31 Aug 2014 and 28 Feb 2015.

The structure of the licentiate/doctorate

The studies required for the licentiate and doctoral degree offered by the doctoral programme comprise the licentiate thesis or doctoral dissertation, transferable skills studies (10–15 ECTS), and studies in the discipline and field of research (35–40 ECTS), totalling 50 ECTS.

Studies required for the licentiate/ doctoral degree:

Transferable skills studies (15 ECTS)

Research Ethics (1 ECTS), obligatory course

Other studies (10–14 ECTS), elective courses from the provision of the UEF Doctoral

Programme or SOSNET, the Finnish National University Network for Social Work, for example:

- Studies in scientific writing for postgraduate students
- Studies in academic research for postgraduate students
- Studies in information retrieval, databases and information management for postgraduate students
- Studies in academic English for postgraduate students
- or other similar courses.

Studies in the discipline and field of research (35 ECTS)

Research Seminar in Social Work and Social Services (10 ECTS), *obligatory*

Theoretical Knowledge Base and Research Orientations in Social Work and Social Services (10 ECTS), *obligatory*

Scientific Presentation in Research (10 ECTS), *obligatory*

Methodology and research method studies in Social work and Social Services (10 ECTS), *obligatory, at least two advanced level courses defined in the personal study plan.*

A personal postgraduate study plan is made for each postgraduate student.

After completing the general transferable skills studies, the student masters the ethical principles of conducting research, and the student is able to communicate about his or her field of expertise in both Finnish and/or in English.

The studies in the discipline and field of research deepen the knowledge the student has obtained of his or her discipline during the undergraduate studies. Furthermore, the studies enhance the student's mastery of the theory and methodology of research and give the student the skills needed in positions requiring a high level of academic expertise both within and outside of academia.

If the student has been granted the right to pursue his/her doctoral studies at the UEF before 1st August 2014, he/she will complete his/her doctoral degree according to the syllabus valid at the beginning of his/her doctoral studies, unless stipulated differently / in a different manner by the faculty or the doctoral programme.

2.2.4.10 Doctoral Programme in Russian and Border Studies

The Doctoral Programme in Russian and Border Studies is offered jointly by two faculties, an interdisciplinary doctoral programme conducted entirely in English with the purpose of training experts in cross-border and transboundary interaction and focusing specifically on Russia and the Eastern border of the European Union. Students completing the doctoral programme gain expertise in border regions and cross-border co-operation, capable of analysing developments in Russia as part of the European cultural, economic and political community. The doctoral programme is co-ordinated by the Karelian Institute at the University of Eastern Finland, and it is closely connected to the VERA Centre for Russian and Border Studies.

The Russian and Border Studies programme is available to students aiming for a doctorate in any of the major subjects offered by the Faculty of Social Sciences and Business Studies and

Philosophical Faculty of the University of Eastern Finland. The programme also co-operates with other doctoral programmes offered by these faculties and students may include relevant courses and seminars in such programmes in their studies in consultation with their supervisor. The doctoral programme encourages students to choose research topics that transpose the limits of the disciplines and challenge methodological conventions.

The board of the doctoral programme consists of a chair and two representatives from both of the participating faculties. The advisory board of the programme is the board of the VERA Centre for Russian and Border Studies.

Units participating in the programme:

Philosophical Faculty: School of Humanities and School of Theology

Faculty of Social Sciences and Business Studies: Department of Geographical and Historical Studies, Department of Business, Department of Law, Department of Health and Social Management, Department of Social Sciences, as well as the Karelian Institute and Centre for Tourism Studies.

Degrees available in the doctoral programme

The following degrees are available to students admitted into the doctoral programme. The licentiate degree is voluntary and is not an obligatory part of doctoral degree studies. For a licentiate or doctoral degree, a student must complete studies of at least 50 ECTS that support the research project or professional competence and write a licentiate thesis or doctoral dissertation. A licentiate thesis can include a public examination or can be evaluated in the faculty on the basis of statements given by examiners. A doctoral dissertation must always be defended in public.

The major subjects and the available degrees in the doctoral programme are:

- | | |
|----------------------------------|--|
| • History | |
| ◦ Finnish History | Licentiate of Philosophy, Doctor of Philosophy |
| ◦ General History | Licentiate of Philosophy, Doctor of Philosophy |
| • Geography | Licentiate of Philosophy, Doctor of Philosophy |
| • Business Studies | Licentiate of Science (Economics and Business Administration)
Doctor of Science (Economics and Business Administration) /
Doctor of Philosophy |
| • Cultural Studies | |
| ◦ Literature | Licentiate of Philosophy, Doctor of Philosophy |
| ◦ Folklore Studies | Licentiate of Philosophy, Doctor of Philosophy |
| ◦ Cultural Studies | Licentiate of Philosophy, Doctor of Philosophy |
| • Public Law | Licentiate of Administrative Sciences, Doctor of Sciences / Doctor of Philosophy |
| • Law | Licentiate of Law, Doctor of Law / Doctor of Philosophy |
| • Theology, Western and Orthodox | Licentiate of Theology, Doctor of Theology |
| • Russian Language | |
| ◦ Russian Language and Culture | Licentiate of Philosophy,
Doctor of Philosophy |

- | | |
|-------------------------------|--|
| • Human Geography | Licentiate of Social Sciences, Doctor of Social Sciences/Doctor of Philosophy |
| • Sociology and Social Policy | Licentiate of Social Sciences, Doctor of Social Sciences/ Doctor of Philosophy |
| • Environmental Policy | Licentiate of Social Sciences, Doctor of Social Sciences/ Doctor of Philosophy |
| • Health Management Sciences | Licentiate of Health Sciences, Doctor of Health Sciences/ Doctor of Philosophy |

Eligible applicants in Public Law and Law seeking to pursue a doctoral degree in law (LL.D.) or philosophy (Ph.D.), or wishing to change their target degree (e.g., from Sc.D. Admin), should look up the detailed instructions from the corresponding Doctoral Programme in Law that is co-ordinated by the Department of Law (<http://www.uef.fi/en/oikeustieteet/tohtoriohjelman>).

Post-graduate students, who have been given the right to pursue the degree of Doctor of Administrative Sciences (D.Sc. (Admin.)) prior to 1st August 2013, may complete the degree. After this date, new students are not accepted to pursue this degree.

In case a PhD student wants to change his/her major in the Doctoral Programme, he/she should write a free-form application to the Head of Academic and Student Affairs of the Faculty of Social Sciences and Business Studies. The application should include personal details, contact information, current and applied major, and current and applied target degree. Grounds for the change of the major must be provided in the application. It is possible to apply for the right to change the major four times a year (deadlines for application for the academic year 2014–2015 are 29th August, 28th November, 27th February and 30th April). The individual study plan should be updated when major is changed.

The Doctoral Programme in Russian and Border Studies subscribes to the general requirements applied by the faculties participating in the programme and the Doctoral School of the University of Eastern Finland concerning eligibility of doctoral studies and the application for the right to pursue doctoral studies. According to these instructions, an applicant is eligible to pursue doctoral studies if one

- has completed a Master's degree;
- has completed a foreign degree that, in the country concerned, provides eligibility for corresponding university studies, or;
- has otherwise been deemed by the university to possess the necessary skills and competences for pursuing doctoral studies.

Eligibility for doctoral degree studies and admission criteria

The eligibility criteria for doctoral degree studies are described in Chapter 1.4.

Eligible students for the doctoral programme are interested to conduct scientific research and to work as a researcher and hold a Master's or a licentiate degree in history, cultural studies, gender studies, sociology, international politics or political studies, social policy, human geography or business studies (including economic geography), theology or other relevant field. The emphasis is on applications that concentrate on one or several of the defined themes of the university's Centre for Russian and Border Studies: (1) Power, institutions and beliefs in Russia and in border regions; (2) European borders and neighbourhood; (3) Transitions in border regions; (4) Cross-border cultural interaction: tendencies, ideas and concepts on the

move; and (5) Tourism, business and Russia. If the research project of an eligible applicant is related to other themes of research, the applicant may be admitted to the doctoral programme if a suitable supervisor may be found for the project.

The board of the doctoral programme assesses the applications and makes proposals concerning the approval or rejection of the applications. The key criteria in the assessment of applicants are success in previous studies, publications, and the scientific standard and feasibility of the research plan, as well as a statement from the proposed supervisor. An applicant is expected to have sufficient English language proficiency to pursue a research project. There is no maximum number of students in the doctoral programme or annual intake.

How to apply

A written application should be sent to the faculty. The faculty awards the postgraduate study right, appoints the supervisors as well as accepts the research plan and personal postgraduate study plan. The application to the Doctoral Programme in Russian and Border Studies also must be accompanied by a statement from a professor or docent who has agreed to supervise the research project.

The deadlines for applications for the academic year 2014-2015 are 31 August 2014, 30 November 2014, 28 February 2015 and 30 April 2015.

Requirements for a licentiate/doctorate

DOCTORAL STUDIES SUPPORTING RESEARCH OR PROFESSIONAL COMPETENCE, 50 ECTS

Teaching in the doctoral programme consists of studies supporting research or professional competence (50 ECTS) and a licentiate thesis or a doctoral dissertation. The required volume of subject-related studies and transferable skills studies depends on the degree pursued.

Faculty	Degree	Required studies
Faculty of Social Sciences and Business Studies	Licentiate of Administrative Sciences, Licentiate of Law	Studies in the discipline and field of research: 40 ECTS
	Doctor of Administrative Sciences, Doctor of Law	Transferable skills studies: 10 ECTS A doctoral dissertation or licentiate thesis
	Licentiate of Science (Economics and Business Administration), Doctor of Science (Economics and Business Administration)	Studies in the discipline and field of research: 30 - 35 ECTS Transferable skills studies: between 10 and 15 ECTS A doctoral dissertation or licentiate thesis
Philosophical Faculty	Licentiate of Social Sciences, Licentiate of Philosophy	Studies in the discipline and field of research: 35 - 40 ECTS Transferable skills studies: between 10 and 15 ECTS
	Doctor of Social Sciences, Doctor of Philosophy	A doctoral dissertation or licentiate thesis
Philosophical Faculty	Licentiate of Theology, Doctor of Theology	Studies in the discipline and field of research: 40 ECTS Transferable skills studies: 10 ECTS A doctoral dissertation or licentiate thesis

The courses provided by the Doctoral Programme in Russian and Border Studies are principally subject-related doctoral studies. It is recommended that transferable skills studies supporting the student's research project are chosen from the courses provided by the University of Eastern Finland's Doctoral School.

Subject specific studies

- 5115110 Methodology and theory of science (10 – 20 ECTS)
- 5115111 Scientific publishing and conferences (10 – 20 ECTS)
- 5115112 Research seminar (6 ECTS)
- 5115113 Symposium (2 ECTS)

General transferable skills studies (between 10 and 15 ECTS)

The student shall complete between 10 and 15 ECTS of courses supporting the student's research project as specified in the doctoral study plan and agreed with the main supervisor. A mandatory course in research ethics must be included in the studies, or the student must prepare an essay or take a book exam on the topic of research ethics.

It is recommended that courses supporting the student's research project are chosen from the courses provided by the University of Eastern Finland's Doctoral School and other courses provided by the university and approved by the supervisor or from the transferable skills studies provided by national doctoral training networks. It also is recommended that studies should include courses in scientific writing and languages. Furthermore, it is recommended that studies should include courses in quantitative and qualitative methods offered by the Philosophical Faculty and/or Faculty of Social Sciences and Business Studies.

Every year, the doctoral programme arranges a seminar with a variable theme related to transferable skills studies in co-operation with other doctoral programmes in the faculties or the national doctoral training network (between 1 and 2 ECTS). Students are expected to participate in at least two such seminars during their studies.

If a doctoral student has a justified reason for not participating in the courses provided by the University of Eastern Finland's Doctoral School and/or not completing studies provided by the doctoral school, substitute studies and their manner of completion must be specified in the personal study plan submitted with the application to pursue doctoral studies; or, if the problem occurs during studies, substitute studies must be agreed with the main supervisor and the director/ board of the doctoral programme.

A maximum of 5 ECTS of this module may be completed by teaching university-level courses in the student's discipline. The number of ECTS credits awarded for this activity is assessed by the main supervisor or the director of the doctoral programme on a case-by-case basis. It is recommended that the general transferable skills studies are completed during the first and the second year of doctoral studies.

A DOCTORAL DISSERTATION AND/OR LICENTIATE THESIS

The form, requirements and assessment of a doctoral dissertation or a licentiate thesis follow the requirements of the faculty in which the degree is completed.

Contact persons of the doctoral programme

Director of the doctoral programme: Professor Ilkka Liikanen, Karelian Institute
Co-ordinator of the doctoral programme: Joni Virkkunen, Karelian Institute

Contact persons in the Faculty of Social Sciences and Business Studies: Laura Assmuth (social sciences), Antti Honkanen (Centre for Tourism Studies), Juha Kinnunen (health and social management), Raija Komppula (business studies), Jukka Korpela (geographical and historical studies), Matti Tolvanen (law) and James Scott (Karelian Institute).

Contact persons in the Philosophical Faculty: Maija Könönen (School of Humanities), Matti Kotiranta (School of Theology)

2.3 Requirements for Licentiate Thesis and Doctoral Dissertation

The most important part of the doctoral degree is research in the main subject field, resulting in a licentiate thesis or a doctoral dissertation.

Licentiate Thesis

The licentiate thesis demonstrates the student's in-depth knowledge of the field of research as well as his/her ability to apply the methods of scientific research into practice both independently and critically.

The licentiate thesis can be a single piece of research (a monograph). Alternatively, it can consist of a sufficient number of scientific publications, or manuscripts accepted for publication, accompanied with a summary, which examine the same set of problems. The licentiate thesis

can also be another scientific work which meets the same criteria. If the thesis is a collection of separate publications or manuscripts, their total must have the scientific value required of a licentiate thesis.

If the licentiate thesis consists of scientific publications or manuscripts accepted for publication which examine the same set of problems and are accompanied by a summary, the summary must specify the research background, aims, methods, results and conclusions. The summary is given a separate title. It must be written so as to avoid unnecessarily repetition of what has already been written in the articles. Rather, the summary organises and draws conclusions from information which has been published in the research field and which the postgraduate student's articles have significantly increased. The summary also discusses new problems yet to be solved. The summary is usually written for the licentiate thesis, but it can also have been published in a scientific journal.

If the publications include collaborative works, the postgraduate student's independent contribution must be attested. The author must specify his/her part in the publication by writing a clarification. The student's supervisors are asked to give a statement about the clarification. If justified, the same publication can also be included in another licentiate thesis.

Doctoral Dissertation

The doctoral dissertation demonstrates the student's in-depth knowledge of the field of research, related fields and the philosophy of science. Furthermore, the dissertation demonstrate his/her ability to apply the methods of scientific research into practice both independently and critically in his/her field of research as well as independently generate new information.

According to the Recommendation of the Finnish Council of University Rectors (7 December 1998), a dissertation shall:

1. show the doctoral abilities in independent research work,
2. form a coherent whole
3. be based on original idea and aims; and
4. present new results or ideas.

A dissertation can be:

- a monograph
- article-based or compilation dissertation which comprises a sufficient number of publications, or manuscripts accepted for publication dealing with the same set of problems

a) In addition to the articles, the dissertation includes a summary

b) The articles form the chapters of the dissertation. In addition to article chapters, the dissertation usually also includes an introductory chapter and a chapter for conclusions.

In the summary of the compilation, the doctoral candidate presents the background, aims, methods, results and conclusions of the research. A name is given to the dissertation. The purpose of the article-based dissertation is not to unnecessarily copy sections of the articles included in it but to arrange and interpret the information introduced in those publications. In addition, the author looks at new problems that are to be solved.

If one or more articles that form a part of the dissertation are joint publications, the doctoral candidate must provide a written clarification on his/her individual contribution to them. The student's postgraduate supervisors are asked to give an opinion on the clarification. For a justified reason, the same article may be used as a part of another doctoral dissertation as well.

2.3.1 Philosophical Faculty

An eligible doctoral dissertation may be a monograph or a collection of research articles. A collection of research articles consists of scientific publications or manuscripts, outlined in an independent summary, which examine the same set of problems. The number of articles required is determined by the Philosophical Faculty. A doctoral dissertation in the form of a collection of research articles contains at least three peer-reviewed articles of which two must have been published and one must have been approved for publication. An article published in advance by a publication series as an online article is considered to be published. If the publications include collaborative works, the doctoral candidate must attest to his/her independent contribution either in the summary or in a separate appendix. The doctoral candidate must be the main author of at least three articles. A collaborative publication may be included in no more than two person's licentiate theses or doctoral dissertations.

An eligible licentiate thesis may be a monograph or a collection of research articles. A collection of research articles consists of scientific publications or manuscripts, outlined in an independent summary, which examine the same set of problems. The number of articles required is determined by the Philosophical Faculty. A collection of research articles consists of at least two peer-reviewed articles approved for publication. If the publications include collaborative works, the author of the licentiate thesis must attest to his/her independent contribution either in the summary or in a separate appendix. The author of the licentiate thesis must be the main author of at least two articles. A collaborative publication may be included in no more than two person's licentiate theses or doctoral dissertations.

2.3.2 Faculty of Science and Forestry

A licentiate thesis or a doctoral dissertation can be either a monograph or a collection of research articles. A licentiate thesis or a doctoral dissertation can be a scientific account based on independent research which is deemed to increase knowledge in the field in question (a monograph). A licentiate thesis or a doctoral dissertation can consist of a sufficient number, determined by the university, of scientific publications discussing the same set of problems (article-based or compiled dissertation). They can be either published or intended/accepted for publication, and they are outlined in a separate summary.

In the Faculty of Science and Forestry, the structure of an article-based doctoral dissertation is the following: Typically the dissertation contains three to five scientific publications, at least two or at least 50 per cent of which have been published or accepted for publication in international, scientific peer review series. In the case of collaborative publications, the author's independent contribution must be attested. The dissertation must also include a clarification of the author's contribution to collaborative publications.

An article-based licentiate thesis is shorter than a doctoral dissertation, but the same instructions apply.

2.3.3 Faculty of Health Sciences

A licentiate thesis or a doctoral dissertation can be a single study (a monograph) or consist of a sufficient number of scientific publications discussing the same set of problems, accompanied by a summary. At least 50 per cent of the publications are to have been published or accepted for publication in international, scientific peer review series. In the case of collaborative publications, the author's independent, sufficiently substantial contribution must be attested.

2.3.4 Faculty of Social Sciences and Business Studies

Forms and publication of a licentiate thesis

A licentiate thesis may be

- (a) a single study (a monograph)
- (b) at least two peer-reviewed articles discussing the same set of problems, one of which must be published and the other accepted for publication. Other articles may be manuscripts intended for publication. If the peer-reviewed articles are collaborative publications, the author of the doctoral dissertation must be the principal author in at least two articles.

An article published in advance by a publication series as an online article is considered to be published.

In the field of business studies, the licentiate thesis can also be essay-based. In this case, the licentiate thesis consists of at least two published or unpublished, independent texts which discuss the same research problem or set of problems. Some of the independent texts may be scientific articles or other publications while others may be unpublished essays.

Both article-based and essay-based licentiate theses must include an introduction and a summary of the articles/essays. The introduction and the summary can be either at the beginning of the thesis or provided separately. If the articles/essays have been written collaboratively, the author must specify his/her part in the publication by writing a clarification when submitting the licentiate thesis for examination. A collaborative publication may be included in two licentiate theses at most.

Forms and publication of a doctoral dissertation

A doctoral dissertation can be

- (a) a single study (a monograph)
- (b) at least three peer-reviewed articles discussing the same set of problems, one of which must be published and two must be accepted for publication. Other articles may be manuscripts intended for publication. If the peer-reviewed articles are collaborative publications, the author of the doctoral dissertation must be the principal author in at least two articles.

An article published in advance by a publication series as an online article is considered to be published.

In business studies, a doctoral dissertation can also be essay-based. An essay-based doctoral dissertation consists of at least three published or unpublished, independent texts which discuss the same research problem or set of problems. Some of the independent texts may be scientific articles or other publications while others may be unpublished essays.

Both the article-based and the essay-based doctoral dissertations must include an introduction and a summary of the articles/essays. The introduction and the summary can be either at the beginning of the doctoral dissertation or provided separately. If the articles/essays have been written collaboratively, the author must specify his/her part in the publication by writing a clarification when applying for permission for the public examination. A collaborative publication may be included in no more than two doctoral dissertations.

Separate instructions have been issued on publishing a doctoral dissertation.

2.4 The University of Eastern Finland's Doctoral School

The University of Eastern Finland's Doctoral School

The University of Eastern Finland's Doctoral School was launched at the beginning of 2011. All doctoral students in the University of Eastern Finland are automatically students of the University of Eastern Finland's Doctoral School. The Doctoral School coordinates and develops doctoral studies at the university and provides courses, peer support and guidance for doctoral students. The Doctoral School also publishes this Doctoral Curricula.

The Doctoral School provides transferable skills studies jointly for all doctoral students at the university. The courses are open to all doctoral students at the university. Teaching is either in Finnish or English; the language of the course title in the table below indicates the language of the course.

Courses provided by the University of Eastern Finland's Doctoral School in the academic year 2014-2015 (for course descriptions, registration and schedules, see WebOodi: <https://wiola.uef.fi/weboodi/>). Language of the course title refers to study language of the course.

Autumn term 2014	
1145003 Research Ethics, 1 op	JNS & KUO
1145005 Orientaatio jatko-opintoihin/Orientation to Postgraduate Studies	JNS & KUO
1145014 Tohtoriorientaatio/Orientation to Doctoral Candidates	JNS & KUO
1145012 Business for PhD Students, 2 op	KUO (every other year in JNS)
1145016 The Quantitative Thesis, 6 op	KUO (every other year in JNS)
5215207 Oman osaamisen tuotteistaminen, 2 op	web course
8010052 Tieteellinen kirjoittaminen jatkokoulutettaville, 2 op	JNS
8010060 English for Postgraduate Students, 4 op	JNS & KUO
8010061 Conference English, 3 op	JNS & KUO
8020240 Tiedonhaun kurssi jatkokoulutettaville, 2 op	JNS & KUO
8020250 Information Skills for Postgraduate Students, 2 op	KUO
8022010 Julkaisutoiminnan ja tutkimuksen arvioinnin perusteet	JNS
8010061 Conference English, 3 op	KUO
8020240 Tiedonhaun kurssi jatkokoulutettaville, 2 op	JNS & KUO
8020250 Information Skills for Postgraduate Students, 2 op	KUO
Bibliometriikan perusteet	JNS & KUO

Spring term 2015

1145004 Scientific Thought and the History of Science, 1,5-3 op	KUO
1145005 Orientaatio jatko-opintoihin/Orientation to Postgraduate Studies	JNS & KUO
1145007 Tohtoriorientaatio/Orientation to Doctoral Candidates	JNS & KUO
1145006 Tutkimusprojektin hallinta, 2 op	KUO (every other year in JNS)
1145010 Research Supervision, 1 op	KUO
5215206 Yrittäjyys ja työelämä, 2-4 op	JNS
5215208 Yrityksen perustaminen, 2 op	JNS & KUO
8010051 Mediaviestintä jatkokoulutettaville, 2 op	JNS (every other year in KUO)
8010052 Tieteellinen kirjoittaminen jatkokoulutettaville, 2 op	KUO
8010053 Puheviestintää jatkokoulutettaville, 2 op	KUO (every other year in JNS)
8010060 English for Postgraduate Students, 4 op	JNS & KUO
8010061 Conference English, 3 op	JNS & KUO
8020240 Tiedonhaun kurssi jatkokoulutettaville, 2 op	JNS ja KUO
8020250 Information Skills for Postgraduate Students, 2 op	JNS
8022010 Julkaisutoiminnan ja tutkimuksen arvioinnin perusteet	KUO

General transferable skills studies may also include studies in university pedagogics. For more information on the university pedagogics courses (30 ECTS in total), see http://www.uef.fi/web/opinto-ja-opetuspalvelut/yo_pedagogiikka.

The Language Center of the UEF has now Writing Clinic activity for doctoral students. The Writing Clinic offers a one-on-one support service for post graduate students who want to improve their texts and develop better writing skills. Further information and appointments: <http://www.uef.fi/kielikeskus/writing-clinic>

2.5 Guidelines for Supervision of Doctoral Students

It is recommended that the supervisor and the doctoral student prepare a mutual supervision guideline that details the practices of supervision, reporting and possible feedback.

1. To discuss the selected research topic with the supervisor considering the doctoral student's personal aims and research objectives.
2. At the beginning of the studies, to prepare, under the guidance of the supervisor, a preliminary research plan; to detail the content of the research project, objectives, methods and schedules.
3. At the beginning of the studies, to prepare, together with the supervisor, a personal doctoral study plan which supports the research project and the student's career plans.

4. To study the ethical issues of scientific research and follow good scientific practice in the research project. The primary responsibility for the application of good scientific practice belongs to every researcher; to ensure that the necessary permits for the research project have been obtained.
5. To study the field of research and its theoretical principles, previous findings, theories and methods at the very beginning of the research project and follow the literature in the field.
6. To conduct independent research according to the research plan and to follow the doctoral study plan.
7. To ensure funding for the research project together with the supervisor.
8. To report on the progress of the research project regularly to the supervisor, any monitoring group and, if necessary, the bodies which have funded the research project; to provide feedback to the supervisor and be honest about any problems related to the doctoral studies.
9. To register with the university every year either as an attending or as a non-attending student.
10. To apply for permission for the public examination, to place the doctoral dissertation on public display, to publish the dissertation, to take care of practical arrangements of the public examination, to defend the dissertation and to apply for a degree certificate after completing the studies listed in the personal doctoral study plan.

The duties of a supervisor

1. To provide guidance in the selection of the research topic considering the doctoral student's personal aims and research objectives.
2. At the beginning of the studies, to provide help in the preparation of a research plan; to detail the content of the research project, objectives, methods and schedules together with the student; to ensure that the research plan is feasible.
3. At the beginning of the studies, to help the student prepare a personal doctoral study plan which meets the requirements set by the faculty and supports the research project and the student's career plans.
4. To detail the ethical issues of scientific research to the student and ensure that good scientific practice is followed in the research project; to ensure that research permits have been obtained; to provide guidance to the student in applying research permits, to agree on the access and publication rights of research materials and to agree on the cooperation between partners.
5. To ensure that the student knows the key theoretical principles, previous findings, theories and methods in the field of research at the very beginning of the research project.
6. To help and support the student in the organisation of the different stages of the research project: setting the research question, carrying out the research project, interpreting and reporting the results and planning the research project further.
7. To ensure funding for the research project together with the student.
8. To monitor regularly the progress of the studies and the doctoral dissertation and to be committed to the supervising task as mutually agreed. It is important to both encourage the student and provide feedback and to address any problems that may arise.
9. To verify that courses provided by others than the University of Eastern Finland are suitable to the student's personal doctoral study programme (this may include courses completed elsewhere, conferences attended, etc.).
10. To contribute to ensuring that the research project intended to be published as a doctoral dissertation meets the requirements concerning the standard of contents and form of a scientific work by a doctoral student.

2.6 Support for Studies and Research

Research Services

The Research Services of the university advance and support research and development funding from outside the university. The unit offers services related to research and innovation funding and contracts to personnel and postgraduate students of the university, such as information, guidance, training and seminars.

- Funding services: information and advice on national and international funding for research and innovation, EU funding (e.g. framework funds, structural funds), grants and donations.
- Legal services: expert services in contract and intellectual property rights law.

The Research Services offer advice in acquiring funding for research and development both in Finland and abroad, making applications and project plans, and practical matters concerning projects. It also helps with matters concerning grants and donations. The unit offers legal advice in matters concerning agreements and contracts, prepares agreements and comments on agreement proposals made by cooperation partners. The university's agreement forms and models can be found on the university website. Further information is available on the university intranet: <https://www.uef.fi/intra/tip>

Entrepreneurship and Innovation Services

The Entrepreneurship and Innovation Services serve the university's researchers and students in matters related to entrepreneurship, research results applications and innovations.

Those who plan on becoming entrepreneurs and starting their own business are offered personal guidance on establishing their business, business idea evaluation, writing a business plan, and combining entrepreneurship and research. The Entrepreneurship and Innovation Services collaborate with several professionals outside the university who provide their knowledge to prospective and beginner entrepreneurs.

The Entrepreneurship and Innovation Services receive and process invention disclosures. A separate implementation plan is made for each invention together with the inventor. The unit also helps to recognise potential innovations and seek research and contracting parties. It also trains inventors on matters related to intellectual property law and turning expertise into business.

The Entrepreneurship and Innovation Services' contact person at the Joensuu campus is Business Development Advisor Irina Lavikainen, tel. +358 50 400 1539, irina.lavikainen@uef.fi and at the Kuopio campus Business Development Advisor Matti Höytö, tel. +358 40 354 5916, matti.hoyto@uef.fi

Student and Learning Services

The Student and Learning Services at the University of Eastern Finland serves all students in matters related to studies, study plans, graduation and employment. The unit serves students on all three campuses in matters related to general study guidance, university registration, study rights, certificates, transcripts of academic records, study guides, the student register, and information and communications to students.

The Student and Learning Services take care of study grants, career and guidance services and international student services, for example. The staff at the unit are available to assist in

all practical matters throughout your studies. They provide information and guidance across faculty and subject borders.

The opening hours of the Student and Learning Services are:
Mon-Tue, Thu-Fri 10-15;
closed on Wednesdays

The opening hours also apply to the phone service.

www.uef.fi/opiskelu/opintopalvelut

Library

The Library of the University of Eastern Finland is a public scientific library. Its services, facilities and collections in the university's scientific fields are open to everyone.

The library has a wide selection of scientific publications and course books used at the university, the Open University and the Summer University, research materials, scientific magazines and theses. Nearly every Finnish book printed since 1980 in the legal deposit library is available in the reading room. The collection contains both printed and electronic books, magazines and databases for information retrieval.

The library's collection information is saved in the Josku database which can be freely accessed at <http://josku.linneanet.fi/>. It is possible to reserve books at other campuses from any library. Materials outside the collection can be ordered by making a distance loan from another library.

The student card can be used as a library card. There are libraries on all three campuses in Joensuu, Kuopio and Savonlinna. The university's scientific collections and services can increasingly be accessed online. Students are also granted remote access to the materials.

The library's online services and collections can be found at: www.uef.fi/kirjasto. Basic library services are free of charge. There are also chargeable services. The latest prices and instructions for different services are available on the library website. Information specialists and advisors can help with information retrieval problems. If required, they can give personal guidance on all information retrieval and management-related questions. They can also be commissioned to conduct information retrievals.

2.7 Funding Doctoral Studies

It is possible to receive doctoral study funding from the state study grant system, doctoral programmes, the Academy of Finland, Tekes (Finnish Funding Agency for Technology and Innovations), the Finnish Cultural Foundation (including regional funds), the university, and the grants and scholarships of various funds and foundations.

Funds and Foundations

Säätiöpalvelu (Foundation Service) offers information on Finnish funds and their timetable/schedule for application on its website www.saatiopalvelu.fi/ (in Finnish). Foundation Service is the office of Advisory Board on Funds and Foundations (Säätiöiden ja rahastojen neuvot-

telukunta ry) that advises both funds and grant applicants. Funds grant financial aid for, for instance, writing dissertation, covering costs of printing dissertation and arranging public defence for dissertation and journeys to meetings.

The research services in the University of Turku have created research funding database (TURA) (<http://www.utu.fi/hallinto/tutkimuspalvelut/turatiedotus.htm>, partly in Finnish) which serves for publishing information on doctoral study grants. The database consists of basic information in uniform format on approx 700 financiers in Finland and abroad (e.g. Academy of Finland, Tekes, funds and foundations and other private and public organisations). The database is updated on the basis of notifications of application and update answers sent by the financiers.

State Financial Aid for Students

Please note that separate requirements apply to international students seeking for state granted financial aid for students. Contact your local KELA or the University's Study Grants Advisor to find out whether you are entitled to receive study grant or not. In general, it is possible to receive study grant for doctoral studies. It is granted for full-time studies the uninterrupted length of which is more than eight weeks. The grant is awarded for the minimum of one month and for the maximum of the number of months the studies are usually considered to take plus 10 additional months. In studies in a higher education institute, grant is usually awarded for nine months per year, but if the studies take more than nine months, the period of awarding the grant that year may be extended. The study grant for all higher education studies (Bachelor's, Master's and doctoral level) is available for the maximum of 70 months. When determining the study grant period, only subsidised months (with study grant or adult education subsidy) used for higher education studies are counted. Study grant received for secondary school studies does not deduct the subsidised months during higher education studies, nor receiving study grant for higher education studies subtract the period of right to study grant in secondary school studies.

University of Eastern Finland

In the University of Eastern Finland, it is possible to attend to doctoral studies while in fixed-term service as Early Stage Researcher. Open posts and fixed-term services in the University are published, for example, on the website <http://www.uef.fi/uef/avoimet-tyopaikat>

The doctoral programmes have salary-paying positions for UEF doctoral students. Approximately 150 doctoral students work with this funding as early stage researchers at the university every year. The UEF doctoral student positions are salary-paying positions, enabling the doctoral students to engage in full-time study with an objective to complete the doctoral degree in four years' time.

Doctoral students completing their doctoral degree at the University of Eastern Finland are able to apply for the UEF doctoral student positions. The maximum duration of the doctoral student positions is four years. The persons selected to the UEF doctoral student positions will be hired as early stage researchers by the University of Eastern Finland.

The UEF doctoral student positions may be applied for by persons already are enrolled as doctoral students at the University of Eastern Finland and by persons planning to complete their doctoral degree at the University of Eastern Finland. Further information and calls: <http://www.uef.fi/en/phdpositions>

Most of the doctoral students are working within a research projects financed e.g. by the Academy of Finland, Tekes, enterprises or EU. Enquiries concerning ongoing and forthcoming projects can be addressed directly to professors.

The Philosophical Faculty, wherever possible, budgets funds to support doctoral studies as follows:

- grants for writing the doctoral dissertation
- grants for research visits and international congresses or similar trips abroad (foreign travel grant)
- dissertation publication grant

Further information: <https://www.uef.fi/intra/filtdk/apurahat>.

The Faculty of Health Sciences, wherever possible, budgets funds to support doctoral studies as follows:

- grants for research visits and international congresses or similar trips abroad where the student gives a presentation concerning his/her field of research or leads a workshop (compensation for travel expenses)
- grant for finalising doctoral dissertation
- dissertation printing grant

Further information: <http://www.uef.fi/ttdk/apurahat1>

2.8 Research Ethics in Doctoral Studies

Commitment to good scientific practice is primarily up to individual researcher, but also to supervisor, whole research team, the head of a research unit and the leadership of the University. In addition to good scientific practice each doctoral student must take into account valid legislation.

Ministry of Culture and Education has nominated The National Advisory Board on Research Ethics (Tutkimuseettinen neuvottelukunta, TENK) to address ethical questions relating to scientific research and to advance research ethics. The National Advisory Board on Research Ethics (2012) has issued research ethics guidelines 'Responsible Conduct of Research and Procedures for Handling Allegations and Misconduct in Finland'. **Each doctoral student has to be aware of good scientific practices**, which can be found at the web site: http://www.tenk.fi/sites/tenk.fi/files/HTK_ohje_2012.pdf

Good scientific practice entails, that

1. The research follows the principles that are endorsed by the research community, that is, integrity, meticulousness, and accuracy in conducting research, and in recording, presenting, and evaluating the research results.
2. The methods applied for data acquisition as well as for research and evaluation, conform to scientific criteria and are ethically sustainable. When publishing the research results, the results are communicated in an open and responsible fashion that is intrinsic to the dissemination of scientific knowledge.
3. The researcher takes due account of the work and achievements of other researchers by respecting their work, citing their publications appropriately, and by giving their achievements the credit and weight they deserve in carrying out the researcher's own research and publishing its results.

4. The researcher complies with the standards set for scientific knowledge in planning and conducting the research, in reporting the research results and in recording the data obtained during the research.
5. The necessary research permits have been acquired and the preliminary ethical review that is required for certain fields of research has been conducted.
6. Before beginning the research or recruiting the researchers, all parties within the research project or team (the employer, the principal investigator, and the team members) agree on the researchers' rights, responsibilities, and obligations, principles concerning authorship, and questions concerning archiving and accessing the data. These agreements may be further specified during the course of the research.
7. Sources of financing, conflicts of interest or other commitments relevant to the conduct of research are announced to all members of the research project and reported when publishing the research results.
8. Researchers refrain from all research-related evaluation and decision-making situations, when there is reason to suspect a conflict of interest.
9. The research organisation adheres to good personnel and financial administration practices and takes into account the data protection legislation.

University of Eastern Finland Committee on Research Ethics

The University of Eastern Finland Committee on Research Ethics:

1. evaluates the ethics of human-targeted non-medical research projects and issues statements on them
2. evaluates, if needed, the ethics of other research projects if the evaluation has not been imposed on other parties by legislation
3. promotes research ethics training and provides guidelines related to research ethics questions at the university
4. works as an expert body in research-related ethical problem situations emerging at the university,
5. maintains research ethics discussion at the university
6. monitors and participates in the preparation of national research-related ethical guidelines and ensures its implementation at the University of Eastern Finland.

The Chair of the University of Eastern Finland Committee on Research Ethics is Professor Risto Turunen (risto.turunen@uef.fi) and its Secretary is Helena Suomalainen (helena.suomalainen@uef.fi).

The committee assesses the ethicality of research project and, if necessary, gives statements about them. Further information on how to request a statement: www.uef.fi/uef/tutkimuseettinen-toimikunta

Researchers must submit their research plan to ethical review if a study contains any of the following features:

1. The study involves an intervention in the physical integrity of subjects,
2. The study deviates from the principle of informed consent (ethical review is not required if the research is based on public documents, registries or archived data),
3. The subjects are children under the age of 15, and the study is not part of the normal activities of a school or an institution of early childhood education and care, and the data are collected without parental consent and without providing the parents or guardians the opportunity to prevent the child from taking part in the study,

4. The study exposes research subjects to exceptionally strong stimuli and evaluating possible harm requires special expertise (for example, studies containing violence or pornography),
5. The study may cause long-term mental harm (trauma, depression, sleeplessness) beyond the risks encountered in normal life,
6. The study can signify a security risk to subjects (for example, studies concerning domestic violence).

The researcher can also request a statement from the Committee on Research Ethics when

- it is required by the research topic, funder or cooperation partner
- research results are planned for publication in a scientific journal which requires advance assessment of research ethics

Committee on Research Ethics in the Pohjois-Savo Hospital District

The Committee on Research Ethics is a statutory body, appointed by the hospital district, which assesses medical research projects prior to their commencement and gives its opinion on them. Significant changes to the research plan must also be submitted for the committee's review before they take place.

The committee ensures that the research is ethical and that it takes into account the Medical Research Act and the amendments made to it, regulations on data protection and privacy, international regulations about the status of the research subjects and other regulations and guidelines concerning health sciences research. The Committee's special task is to assess whether the rights of the research subjects are respected, and whether research plans are appropriate and ethical.

The committee reviews the statements given about research which takes place at the university and the hospital but also outside the university and the Kuopio University Hospital (outpatient care, smaller hospitals with no research ethics committee).

The Committee on Research Ethics must approve the research plan before the research is allowed to begin. In addition, the research facilities must also give permission for research.

The committee's Chair is Professor Soili Lehto and the Secretary is Research Coordinator Arja Halkoaho (arja.halkoaho@kuh.fi). The committee's email address is Tutkimuseettinentoimikunta@kuh.fi. Statement requests to the Committee are sent to: Pohjois-Savon sairaanhoitopiirin kuntayhtymä, Tutkimuseettinen toimikunta, Rakennus 10 (4.krs), PL 1777, FI-70211 Kuopio, Finland. The application form and instructions are available at: <http://www.pssh.fi> – Tutkimus – Tutkimuseettinen toimikunta (in Finnish).

Research funders may require that a statement from the Commission on Research Ethics is attached to funding applications (e.g. the Academy of Finland).

Organisations that take part in ethical assessment in Finland

- TENK, National Advisory Board on Research Ethics <http://pro.tsv.fi/tenk/ENG/function.htm>
- ETENE, National Advisory Board on Health Care Ethics <http://www.etene.org/e/index.shtml>
- KYTÖ, Cooperation Group for Laboratory Animal Sciences <http://wwwb.mmm.fi/koe-elaintoiminta/engl.htm>

- BTNK, Finnish National Advisory Board on Biotechnology <http://www.biotekniikan-neuvottelukunta.fi/english1.htm>
- GTLK Board for Gene Technology <http://www.geeniteknikanlautakunta.fi/en>

Guidelines and regulations on using laboratory animals

The use of laboratory animals is subject to licence. The use of animals for experimental purposes is regulated in Finland by the Act on the Use of Animals for Experimental Purposes (62/2006), the Decree on the Use of Animals for Experimental Purposes (36/2006), the Animal Welfare Act, the Animal Welfare Decree, the Animal Transport Decree and other legislation on the use of animals for experimental purposes. Further information is available from the website of the university's Laboratory Animal Centre: www.uef.fi/kek/etusivu

3 Completing a Doctoral Degree

3.1 Handling of a Licentiate Thesis and Doctoral Dissertation in the Faculty

Handling of Licentiate Thesis in the Faculty

1. The supervisor proposes licentiate thesis examiners to the Head of Unit or to the faculty. The examiners must hold a doctoral degree. The supervisor cannot be one of the examiners.
2. The student submits his/her licentiate thesis to the faculty to be examined. For the examination, the postgraduate student
 - submits one to three copies of the licentiate thesis to the faculty's Administration Service Centre (Philosophical Faculty: three copies, Faculty of Science and Forestry two copies, Faculty of Health Sciences: one copy, Faculty of Social Sciences and Business Studies: three copies)
 - if the thesis consists of several publications, the student must write a clarification of his/her contribution to the publications and inform the faculty if any of the publications will be included in the licentiate thesis/doctoral dissertation of another postgraduate student.
3. The faculty appoints two examiners to the licentiate thesis.
4. The faculty (in the Faculty of Health Sciences the postgraduate student) sends the licentiate thesis to the examiners.
5. The examiners appointed by the faculty must give their statements within two (2) months after receiving the licentiate thesis.
6. The student makes any corrections demanded by the examiners to his/her licentiate thesis. The student has the opportunity to submit a rejoinder to the examiners' statements.
7. The faculty approves or rejects the licentiate thesis and notifies the postgraduate student of the decision and the possible grade on the basis of the examiners' statements and the student's rejoinder.
8. Immediately after the licentiate thesis has been approved, the student submits one to three bound copies of it to the university library (one archive copy and possible copies for the unit and for public loans).
9. After completing the studies and theses required for the licentiate degree, the student applies to the faculty for a licentiate degree certificate with a certificate application form. The forms are available on the faculties' doctoral education websites.

Handling of Doctoral Dissertations in the Faculty

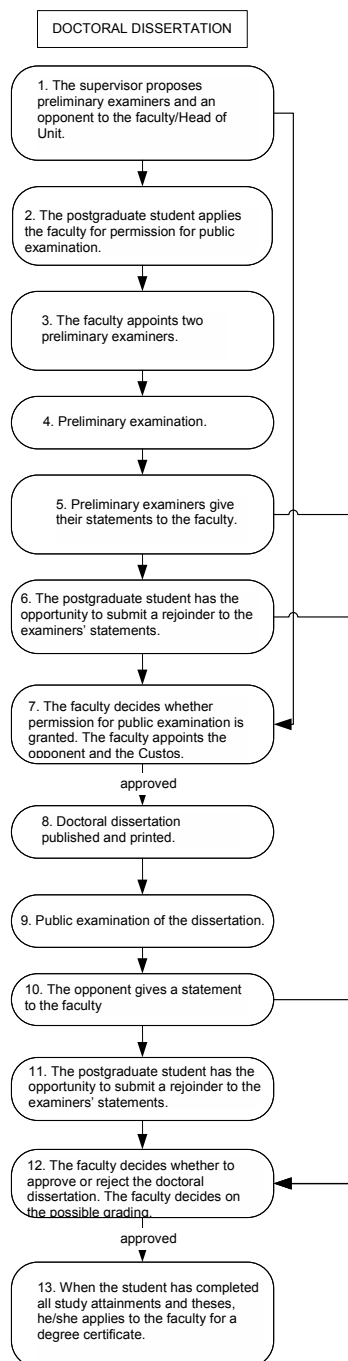
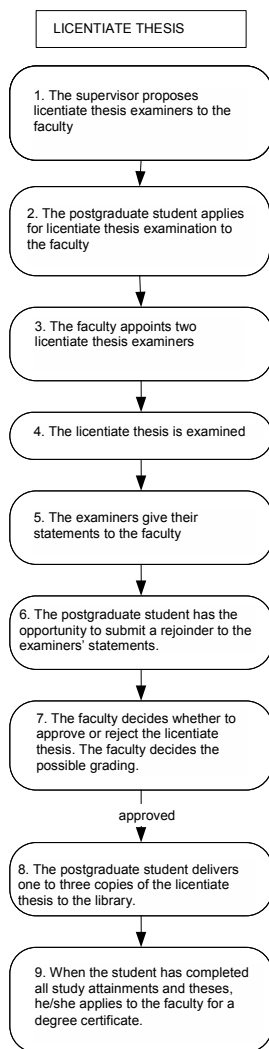
1. The supervisor makes a proposition to the unit head or to the faculty about the doctoral dissertation examiners and its opponent. Supervisors and members of the same

research group cannot become examiners/opponents. The examiners must hold a doctoral degree. The opponent must come from outside the University of Eastern Finland and be at least a docent or hold a corresponding scientific qualification. Faculty of Science and forestry has specified the qualification of examiners (<http://www.uef.fi/lumet/ohjeita-jatko-opiskelijoille>).

2. The doctoral candidate applies to the faculty for permission for public examination through the use of a form available on the faculties' doctoral education websites, in which the person in charge of the subject proposes preliminary examiners for the dissertation. In addition, the doctoral candidate
 - submits the doctoral dissertation to the faculty's Administration Service Centre (Philosophical Faculty: three copies, Faculty of Science and Forestry two copies, Faculty of Health Sciences: one copy, Faculty of Social Sciences and Business Studies: three copies)
 - if the dissertation consists of several publications, the doctoral student must write a clarification of his/her contribution to the publications and inform the faculty if any of the publications will be included in the licentiate thesis/doctoral dissertation of another student.
3. The faculty appoints two examiners to the doctoral dissertation.
4. The faculty (in the Faculty of Health Sciences the doctoral student) sends the doctoral dissertation to the examiners.
5. The examiners appointed by the faculty must give their statements within two (2) months after receiving the doctoral dissertation.
6. The doctoral student makes any corrections demanded by the examiners to his/her doctoral dissertation. The student has the opportunity to submit a rejoinder to the examiners' statements.
7. The faculty decides on giving the doctoral candidate permission for public examination on the basis on the preliminary examiner's statements and the candidate's possible rejoinder. The faculty appoints one or several opponents for the dissertation's public examination and appoints a Custos, the chairman of the public examination. The chairman must be a professor or a docent at the University of Eastern Finland. The doctoral student will be heard before the opponent is decisively appointed.
8. The doctoral candidate sees to the publication of the doctoral dissertation as well as its possible printing. The candidate delivers a printed copy to the library on his/her campus ten days before the public examination.
9. Public examination of the dissertation. The doctoral candidate deals with the practical arrangements of the public examination (detailed instructions in Section 3.4.1):
 - The doctoral candidate sets a date and books a venue for the public examination together with the opponent, the Custos and the main supervisor at least three weeks before the public examination takes place. The doctoral candidate announces the time and venue and delivers the dissertation to the Faculty Dean and the Rector of the university.
 - The doctoral candidate sends the details of the public examination to the university's Communications and Media Relations Office at least two weeks before the

public examination takes place (detailed instructions in Section 3.4.1 Preparing for the public examination of the dissertation).

10. The opponent gives the faculty a written statement about the dissertation within two weeks following the public examination.
11. The student has the opportunity to submit a rejoinder to the opponent's statement.
12. The faculty approves or rejects the doctoral dissertation and decides the possible grade on the basis of the statements given by the opponent(s) (and the preliminary examiners) and the postgraduate candidate's possible rejoinder. The student is notified when the doctoral dissertation has been approved.
13. After completing the studies and theses required for the doctoral degree, the student applies to the faculty for a doctoral degree certificate with a certificate application form. Detailed instructions are available on the faculties' doctoral education websites.



3.2 Evaluation of a Licentiate Thesis and Doctoral Dissertation

3.2.1 Philosophical Faculty

Licentiate Thesis

Licentiate theses are graded by the Faculty Council. According to the Faculty Council delegation decision (20 January 2010), the Dean appoints, on the basis of the proposal made by the Head of School, at least two examiners to grade the licentiate thesis. The thesis supervisor cannot be an examiner. A person cannot be appointed as an examiner if he/she has written publications or participated in research projects with the doctoral student during the student's doctoral studies or if he/she is otherwise disqualified.

The examiners must give a written statement which includes a proposed grade. The doctoral student has the right to submit a rejoinder to the examiners' statement. After the licentiate thesis has been approved, it will be graded either *pass* or *pass with distinction*. Before the licentiate thesis is graded, the doctoral student has the opportunity to write a rejoinder to the examiners' statements.

The grade *pass with distinction* can be awarded if the thesis has several significant merits without deficiencies that would nullify them. A public examination can be arranged to grade the licentiate thesis. The doctoral programme for which the thesis was written is responsible for organising the examination. If a public examination is held, the examiners give their statements after it has taken place.

Doctoral Dissertation

According to the Faculty Council delegation decision (20 January 2010), the Dean appoints, on the basis of the proposal made by the Head of School, at least two examiners to the dissertation manuscript. They are chosen, if possible, from outside the student's faculty. The supervisor cannot be one of the examiners. Furthermore, a person cannot be appointed as an examiner if he/she has written publications or participated in research projects with the postgraduate student during the student's doctoral studies or if he/she is otherwise disqualified.

The doctoral dissertation is graded by the Faculty Council after the public examination. According to the Faculty Council delegation decision (20 January 2010), the Dean appoints, on the basis of the proposal made by the Head of School, one or two opponents, a chairman of the public examination (a Custos), and a faculty representative to grade the dissertation. A person cannot be appointed as an opponent if he/she has written publications or participated in research projects with the postgraduate student during the student's postgraduate studies or if he/she is otherwise disqualified. The faculty representative must hold at least a doctoral degree in the same or related subject. The representative familiarises him/herself with the dissertation and observes the public examination. After the public examination, the Custos, the opponent(s) and the faculty representative hold a meeting to discuss grading. The Custos then writes a statement about the proceedings of the public examination. After the public examination, both the opponent(s) and the faculty representative write a statement about the dissertation and the public examination.

In their statements, the opponent(s) and the faculty representative propose one of the following grades to the approved dissertation: *approbatur*, *lubenter approbatur*, *non sine laude approbatur*, *cum laude approbatur*, *magna cum laude approbatur*, *eximia cum laude approbatur* or *laudatur*. Before the dissertation is graded, the postgraduate student must be reserved the

opportunity to write a rejoinder to the statements. The faculty council will grade the dissertation on the basis of these statements.

In grading a doctoral dissertation, the following points in particular must be taken into account:

- (1) The topic and research problem of the research project and narrowing the research problem
The topic has significant information value and generates new information in the field of research or opens a new line of research. The research tasks and questions have been appropriately narrowed down. The research project has a meaningful connection to earlier research.
- (2) *Conceptual clarity*
The concepts used in the research project are clear and justified. They have been analysed and assessed critically and extensively with the help of high-quality scientific literature.
- (3) *Research methodology and methods*
The research project is methodologically justified. The researcher demonstrates his/her knowledge of earlier theoretical and methodological discussion. The methods employed in the research project are described and their choice is explained. The researcher demonstrates that the methods can be used to solve the research problems which have been set.
- (4) *Material*
The material used in the research project is of high quality. It is relevant and sufficient in light of the research topic.
- (5) *Reporting the results and conclusions*
In light of the research tasks, the results have been reported in a logical way from multiple viewpoints. The significance of the results to the field has been assessed in a relevant manner. The research report lists the most important questions for future research. The social and international significance of the research project is assessed.
- (6) *The dissertation in general and its presentation*
The research project is a logical entity both in terms of structure and argumentation, and the language is clear and readable. The text focuses on essential questions. The research project has been completed independently and it demonstrates independent critical thinking towards earlier research, research methods and research concepts.

In the Philosophical Faculty, the following grades may be awarded to a dissertation. A requirement for all grades is that the study conducted must comply with good research ethics in all respects.

- *Laudatur*
The dissertation has an ambitious topic and, in light of the criteria above, its merits are exceptional.
- *Eximia cum laude approbatur*
The dissertation has several significant merits in light of the evaluation criteria above without deficiencies which would nullify them.
- *Magna cum laude approbatur*
The dissertation has significant merits in light of the evaluation criteria above without deficiencies which would nullify them.
- *Cum laude approbatur*
The dissertation meets the evaluation criteria above. The merits of the research may compensate for deficiencies in meeting some of the above-mentioned criteria.

- *Non sine laude approbatur*
The dissertation meets the faculty's specifications for a doctoral dissertation. The research is mostly well conducted, but the dissertation has deficiencies in meeting the above-mentioned criteria with no merits which would significantly compensate for them.
- *Lubenter approbatur*
The dissertation meets the faculty's specifications for a doctoral dissertation, but it has several significant deficiencies in meeting the above-mentioned criteria with no merits which would sufficiently compensate for them.
- *Approbatur*
The dissertation meets sufficiently the faculty's specifications for a doctoral dissertation, but it has several serious deficiencies.

3.2.2 Faculty of Science and Forestry

Licentiate theses and doctoral dissertations are graded on the following scale: pass with distinction – pass – fail. The grade *pass with distinction* requires that the preliminary examiners of the dissertation are consulted on the proposal and they recommend this grade to be awarded.

3.2.3 Faculty of Health Sciences

Licentiate theses are graded pass – fail.

Doctoral dissertations are graded on the following scale: *pass with distinction* – *pass* – *fail*. The grade *pass with distinction* must be proposed by at least two of the evaluators (an opponent and preliminary examiners). Dissertation evaluation instructions for preliminary examiners and opponents are available at <http://www.uef.fi/ttdk/ohjeet-ja-lomakkeet2>.

3.2.4 Faculty of Social Sciences and Business Studies

The most important evaluation criteria for licentiate theses and doctoral dissertations are the scientific significance of the results and the student's personal research contribution. In addition, the evaluation criteria include the following points:

Basis of the research

- the scientific level, formulation and justification of the research problem
- the theoretical basis of the research and its linkage to earlier research
- the scientific and practical relevance of the research topic

Research process

- the student's command of the field of research and knowledge and use of literature
- command, definition and clarity of concepts
- the success of choices made during the research process, the possibility to assess these choices
- the level of challenge, innovativeness and uniqueness of the research
- the suitability and command of the methods used
- the quality and precision of the work

Research results and the way they are reported

- new knowledge and results generated by the research
- sufficiency of the doctoral candidate's contribution to the research

- consistency in linking the research results to the material used
- relevance of the research results to the field of research in question
- in article-based dissertations, the quality and publication forums of the articles
- the research's logical presentation, style and linguistic form
- public examination of the dissertation

Evaluation criteria concerning only the doctoral dissertations:

- in article-based dissertations, the quality and publication forums of the articles
- public examination of the dissertation

Furthermore, attention is paid to whether the research and the way its results are documented take good scientific and ethical practice into account.

Licentiate theses and doctoral dissertations are graded on the following scale:

Scientific field	Licentiate thesis	Doctoral dissertation
Geography and social geography, law, social sciences	laudatur – eximia cum laude approbatur – magna cum laude approbatur – cum laude approbatur – non sine laude ap- probatur – lubenter approbatur – approbatur – improbatur	laudatur – eximia cum laude approbatur – magna cum laude approbatur – cum laude approbatur – non sine laude approbatur – lubenter approbatur – approbatur – improbatur
	professional licentiate degree in social work: pass with distinction – pass – fail	
History	laudatur – eximia cum laude approbatur – magna cum laude approbatur – cum laude approbatur – non sine laude ap- probatur – lubenter approbatur – approbatur – improbatur	laudatur – eximia cum laude approbatur – magna cum laude approbatur – cum laude approbatur – non sine laude approbatur – lubenter approbatur – approbatur – improbatur
Business studies, health sciences	pass with distinction – pass – fail	pass with distinction – pass – fail

3.3 Publishing the Dissertation

After the faculty has given the doctoral candidate permission for public examination, the doctoral dissertation can be published. The dissertation must be published at least ten days before the public examination. The doctoral candidate must make sure that the dissertation is available at the university library in time. If the dissertation has only been published in an electronic format, a paper copy must be taken to the library for the public to view.

A doctoral dissertation can be published in printed or electronic format or both. Printing is not obligatory. The University of Eastern Finland and many research institutes have publication series which publish doctoral dissertation.

The following dissertation series of UEF's publication series publish dissertations:

- Publications of the University of Eastern Finland. Dissertations in Education, Humanities, and Theology.
- Publications of the University of Eastern Finland. Dissertations in Forestry and Natural Sciences.
- Publications of the University of Eastern Finland. Dissertations in Health Sciences.
- Publications of the University of Eastern Finland. Dissertations in Social Sciences and Business (have to publish both in paper and electronic form)

Doctoral dissertation publication process in one of the university's publication series:

1. After the faculty has given the doctoral candidate permission for public examination, the doctoral dissertation can be published.
2. As the author, the doctoral student is responsible for acquiring copyrights and publication rights for the articles and other materials in the dissertation. An article-based dissertation is published in full only if the original article publishers have given their written consent to republish the articles in the university's publication series. The permission for reprinting must be announced on a separate page at the beginning of each article, in the table of contents and after other possible indexes. E.g. 'Printed with the kind permission of [publisher's name]'
3. The doctoral student applies for publication permission from the publication series' editor. After receiving the publication permission, the student signs a publication contract with the editor-in-chief. The publication permission form is available on the communications page of the university's intranet: <https://www.uef.fi/intra/viestinta/julkaisusarjat>
The responsible editors for the publication series are:

Philosophical Faculty

Professor Ritva Kantelinen, Professor Matti Kotiranta and Professor Maija Könönen

Faculty of Science and Forestry

Professor Pertti Pasanen (Environmental Science and Biosciences), vice editors: Professor Pekka Kilpeläinen (Computer Sci), Professor Kai Peiponen (Physics and Mathematics) and Professor Matti Vornanen (Biology).

Faculty of Health Sciences

Professor Veli-Matti Kosma, vice editors: Professor Hannele Turunen and Professor Olli Gröhn, Professor Kai Kaarniranta, University Lecturer Veli-Pekka Ranta.

Faculty of Social Sciences and Business Studies

Professor Kimmo Katajala, information officer Eija Fabritius

4. The doctoral student is responsible for preparing the dissertation for publication, including its layout. The editor-in-chief decides on the layout of the text. Technical writing instructions are available in the university's publication guide: <https://www.uef.fi/intra/viestinta/julkaisusarjat>

The doctoral student also takes care of the layout in practice. A layout template and dissertation cover models are available from the Communications and Media Relations Office's intranet site. It is recommended to use the layout template from

the beginning of the dissertation writing process. <https://www.uef.fi/intra/viestinta/julkaisusarjat>

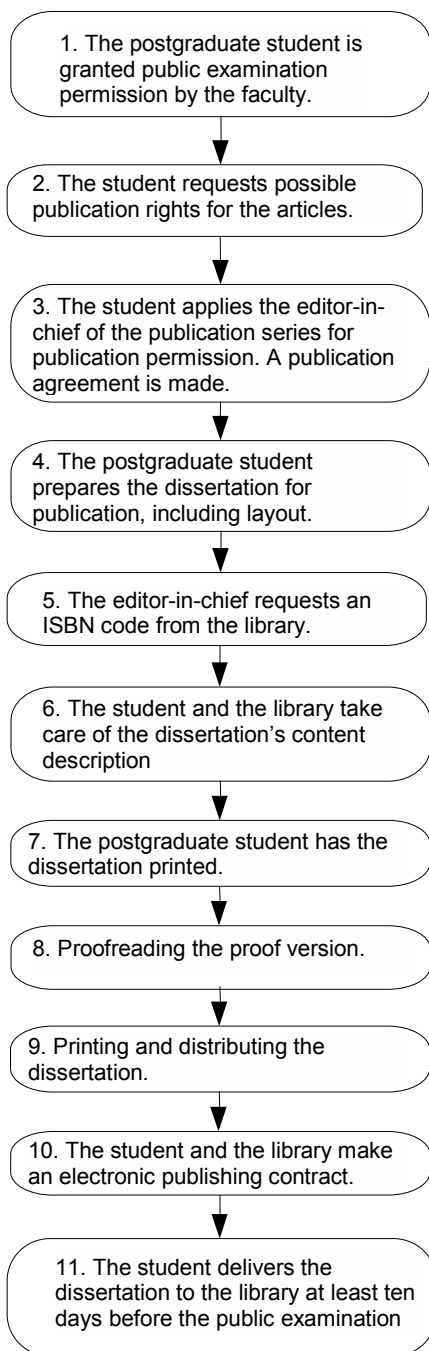
See layout and publication instructions of the Faculty of Philosophy: <http://www.uef.fi/filtdk/vaitoskirjan-julkaisuohjeet>

See layout and publication instructions of the Faculty of Health Sciences: <http://www.uef.fi/ttdk/ohjeet-ja-lomakkeet2>

5. The editor requests an ISBN code for the dissertation from by using the web-formula that can be found from: <http://elomake.joensuu.fi/lomakkeet/3205/lomake.html>
6. The doctoral student writes a content description for the dissertation together with the library, either by email or through a personal appointment with an informatician (further information from the library customer service points).
7. The doctoral student manages the printing of the dissertation.
8. The doctoral student, the editor and a person appointed by the library check the proof version. A proof must always be printed before the thesis is published. The editor-in-chief gives printing permission.
9. The doctoral student sees to the printing and distribution of the dissertation. The print run contains: exchange copies, copies for the library collections, free copies, copies distributed to the university community, an archive copy and copies for sale. The custom has been to send the dissertation to the Rector of the student's home campus, the Dean of the Faculty and the Professor of the student's subject. Copies of the dissertation are sent to the opponent and the Custos well before the public examination. The library will forward the exchange copies funded by the university to its exchange partners and incorporates them into its collections. The library is also responsible for selling the dissertation and determines the price.

The print runs for the publication series are the following: the Philosophical Faculty at least 107 copies, the Faculty of Science and Forestry at least 40 copies, the Faculty of Health Sciences at least 50 copies, the Faculty of Social Sciences and Business Studies at least 120.

10. The doctoral student also signs an electronic publication contract with the library. All dissertations in the university's publication series are also published electronically. The electronic publication contract form and publication instructions are available from the library website: <http://epublications.uef.fi/julkaisijalle/>
11. The doctoral student must take the dissertation to the library of his/her home campus at least ten days before the public examination.



3.4 Public Examination of the Dissertation

Each doctoral dissertation is examined in a public examination ceremony. The ceremony is also a visible, formal occasion for publishing the research results. The public examination usually takes place within one or two months after the faculty has given permission for the public examination. This ensures that there is enough time to print the dissertation and announce the public examination.

Dissertations must be defended in public. The public defence has three roles:

1. it offers the opportunity to ensure, publicly and on the most reliable way, to that the doctoral candidate has written the dissertation him/herself, and that the dissertation meets the standard generally set to dissertations
2. it offers to the official first examiners and others interested in its topic a possibility to thoroughly learn about the contents of the dissertation by listening, making questions and comments and discussing with the author
3. it offers an opportunity to make known research results produced in a way that slightly differs from the everyday work in the university and is more outstanding.

3.4.1 Preparations for the Public Examination of the Dissertation

The list of things to do before the public examination for the doctoral candidate:

- set and book the date and venue for public examination
- take care of the possible printing of the dissertation
- deliver the dissertation for public display to the library at least ten days before the public examination
- present the dissertation to the pre-examiners, the departments and dean of the relevant faculty, and the rector
- deliver the details and notice of the public examination to Communications and Media Relations Office
- set the date for photography
- agree on the catering for the public examination

Setting the date and time for public examination

The doctoral candidate sets a date and time for the public examination together with the opponent, the Custos and the main supervisor at least three weeks before the public examination takes place. The doctoral candidate announces the public examination with the help of the university's Communications and Media Relations Office. The doctoral candidate books the venue for the public examination through the university venue reservation service.

Announcing the public examination

The university's Communications and Media Relations Office delivers a press release of each doctoral dissertation to the media. The press releases are also published on the university website. Public examinations are also announced in the university calendar. The press releases aim to make the university's research more accessible to journalists and the general public.

To make sure that the public examination is announced effectively, the doctoral candidate must do the following at least two weeks before the exam takes place:

- complete an online dissertation form (http://wanda.uef.fi/vaitokset/uef_vaitos.html),
- deliver text for the press release to the Communications and Media Relations Unit using the address [vaitos\(at\)uef.fi](mailto:vaitos(at)uef.fi)
- have his/her public examination photograph taken

The press release is usually delivered the week before the dissertation; this is also announced to the doctoral candidate. The media may use the press release as such when writing news, or they can contact the doctoral candidate to conduct an interview. For this reason, the press release includes the doctoral candidate's contact information. After the press release has been published, the doctoral candidate must be reachable by the media, because if the media finds a dissertation interesting, it is usually reported on before the public examination takes place.

The media independently decides whether a public examination is reported on or not. Whether it becomes news is affected by many things such as the number of public examinations, general interest in the topic, the news of the day and the doctoral candidate's home region. The media cannot be made to publish any information about the public examination.

The faculties' Communications Officers handle press releases:

- Philosophical Faculty: Communications Officer Nina Venhe, nina.venhe@uef.fi, +358 50 593 0160
- Faculty of Science and Forestry: Communications Officer Virpi Komulainen, virpi.komulainen@uef.fi, +358 29 445 8237
- Faculty of Health Sciences: Communications Officer Ulla Kaltiala, ulla.kaltiala@uef.fi, +358 40 745 6463
- Faculty of Social Sciences and Business Studies: Communications Officer Sari Eskelinen, sari.eskelinen@uef.fi, 013 251 2077.

Public examination photographs

A photograph of the doctoral candidate is usually delivered to the media with the press release. Because of this, the doctoral student should have his/her picture taken by the Communications and Media Relations photographer at least two weeks before the public examination. The photography appointment is made directly with the photographer.

Photography at the university is free of charge, and the photographer takes care of forwarding the pictures. It is recommended that the candidate wear dark clothes in the picture (this allows for the picture to be used for example in the register for the conferment of degrees).

- In Joensuu, the photographs are taken by Varpu Heiskanen, tel. +358 13 251 3314, [varpu.heiskanen\(at\)uef.fi](mailto:varpu.heiskanen(at)uef.fi)
- In Kuopio, the photographs are taken by Raija Törrönen, tel. +358 40 355 3294, [raija.torronen\(at\)uef.fi](mailto:raija.torronen(at)uef.fi)

If the student is unable to have a picture taken, he/she can send a paper photograph which will be scanned by the photographer. However, the quality of personal digital photos or small passport photos is rarely good enough for printing.

3.4.2 Progress of the Public Examination

The public examination begins 15 minutes past the hour, by which time the audience will have arrived in the room. The doctoral candidate is the first to enter the room, followed by the custos and finally the opponent. The audience will stand up when they enter the room.

The public examination includes the following sections:

- opening of the public examination
- the candidate's introductory lecture, *lectio praecursoria*
- the opponent's opening statement

- public examination of the doctoral dissertation
- the opponent's final statement
- the candidate's concluding words
- closing of the public examination.

Opening of the public examination

When everyone has taken their seats (the candidate on the left of the custos), the custos will open the public examination by saying: "As the custos appointed by the Faculty of xx of the University of Eastern Finland, I declare this public examination open." After this, the custos and the opponent get seated.

The candidate's introductory lecture, lectio praecursoria

After the public examination has been opened, the candidate stands up to give a short introductory lecture, lectio praecursoria, in which he or she introduces the background of the dissertation and its connections to scientific or practical problems. The lectio praecursoria may not last more than 20 minutes. The candidate should begin the introductory lecture with the following words: "Mr/Madam custos, Mr/Madam opponent, ladies and gentlemen." The introductory lecture is usually given in the language of the dissertation. After the introductory lecture, the candidate says: "I now call upon you, Mr/Madam opponent/Professor/Adjunct Professor/Dr NN as the opponent appointed by the Faculty of xx to present your critical comments on my doctoral dissertation."

The opponent's opening statement

The opponent stands up to give his or her opening statement on the dissertation under examination. The opponent then concludes the opening statement and begins to examine the dissertation in detail. After the opponent has given the opening statement, the opponent and the candidate sit down. If there is more than one opponent, the opponents will have to agree on a division of tasks and announce this in their opening statement.

Public examination of the doctoral dissertation

In the actual examination of the dissertation, the opponent first makes a general overview by discussing the choice of the topic, methods and data, and then moves on to a more detailed examination. At the end of the examination, the opponent makes a summary of the results of the dissertation to the discipline in question. The opponent may use approximately four hours for the examination so as to leave time for possible questions from the audience. If the examination seems to take long, the custos may announce a break.

The opponent's final statement

After having examined the dissertation, the opponent stands up to deliver the final statement. The candidate also stands up to listen. The opponent then takes his or her seat.

The candidate's concluding words

The candidate thanks the opponent and then faces the audience and says: "If anyone present wishes to make any comments concerning my dissertation, please ask the custos for the floor."

Conclusion of the public examination

Finally, the custos stands up to announce that the public examination is completed. The public examination of a dissertation may not last more than six hours.

The custos and opponent hold their doctoral hats in their hand when they leave the room in the same order as they entered: first the candidate, followed by the custos and finally the opponent. The audience should not applaud or cheer during the public examination. Congratulations should be extended to the candidate only after he or she has left the room and has had the opportunity to thank the opponent and the custos.

3.4.3 Post-Doctoral Party, väitöskaronkka

The post-doctoral party, karonkka, taking place in the evening of the public examination is an old academic tradition. The post-doctoral party is held in the honour of the opponent and the candidate acts as the host or hostess of the party.

Invitations to the post-doctoral party

Traditionally, invitations to the post-doctoral party were not sent before the opponent had given his or her statement on recommending the approval of the doctoral dissertation. Nowadays, however, invitations to the post-doctoral party are sent in advance. It is customary for the candidate to contact the opponent before the public examination and ask whether he or she can start the party arrangements.

An invitation to the post-doctoral party should be sent, not only to the opponent and the custos, but also to the supervisor, pre-examiners and proof reader of the dissertation, as well as to anyone else who has clearly contributed to the dissertation. Also the candidate's companion, parents and close friends should be included in the guest list. However, the post-doctoral party is not a family party.

It is also customary to invite the persons from the audience who asked questions or made comments at the public examination to the post-doctoral party but, according to an unwritten rule, they are not to accept the invitation.

The doctoral candidate may formulate the wording of the invitation, but it should indicate the dress code, especially if the doctoral candidate prefers the guests not to wear tailcoats and evening dresses, or wishes to suggest alternative styles of dress.

Dress code

In the post-doctoral party, men traditionally wear a tailcoat and women wear an evening dress. Men should also wear white waistcoat, unless the guests are exclusively male, in which case the waistcoat should be black. Female candidates, as well as female guests arriving with a partner in tailcoat, should wear a long evening dress, either black or other dark colour. Instead of a tailcoat, men may wear a dark suit, in which case the female partner should wear a short, formal dress. The post-doctoral party in general is a festive occasion and everyone should dress accordingly, i.e. not too casually.

Seating

The doctoral candidate is the host or hostess of the evening and the opponent is the guest of honour. The guest of honour sits on the candidate's right. The custos, on the other hand, sits on the candidate's left. If there are two opponents, the younger will sit on the candidate's left and the custos on the next place to the left. Other guests are usually seated in the order of their academic achievement.

Programme

The doctoral candidate offers food, drinks and possibly also some other entertainment as well. The candidate welcomes everyone to the party, after which the dinner will be served.

Speeches should not be given until after the dinner and before the coffee. The candidate should begin the speeches by first thanking the opponent and then the custos. After this, the candidate should also thank everyone else who have contributed to the dissertation, in the order of importance. Finally, the candidate thanks his or her partner or, in the absence of a partner, someone else really close to the candidate. The speeches of thanks given by the candidate should be rather short and they should be given without notes.

The opponent will immediately reply to the candidate's speech. The opponent's response is usually light and informal, not too festive or serious. Should the custos like to say a few words, he or she can do so after the opponent has finished. After this the guests may say a few words in the order they were mentioned in the candidate's speech.

After the speeches, the party takes a more informal turn and the guests can enjoy the music, each others' company, etc.

3.5 Applying for the Degree Certificate

After completing all courses and theses included in the degree, the student applies to the faculty for a degree certificate. The application is made by completing a form which is available on the website of the faculty in question:

Philosophical Faculty: <http://www.uef.fi/filtdk/jatkotutkinnon-haku>

Faculty of Science and Forestry: www.uef.fi/lumet/lomakkeet

Faculty of Health Sciences: www.uef.fi/ttdk/ohjeet-ja-lomakkeet2

Faculty of Social Sciences and Business Studies: www.uef.fi/yhka/lomakkeet

Before applying for a certificate, the doctoral student must ensure that all study attainments have been entered into the register. The student must also make sure that the titles of courses and study modules completed in other universities have been translated into English. Titles in English are required when a transcript of academic records is printed in English.

Kuopio Campus



Seminar and Lecture Rooms

Canthia	Medi- teknia	Medi- studia	Snell- mania	Melania	Tieto- teknia	Bi- oteknia	Techno- polis, D	Techno- polis, E+F
L1	MET	ML1	SL	MC9	TTA	B1448	MT1	E14+15
L2	MD2011-12	ML2	L21	S31		B2440	MT2	E16+17
L3	MD3048	ML3	L22		T3		MT3	E24
MC1		MS1+2	S21	118	T4	BSL1437	MT4	E25
MC2		MMK1	S22	220	3808	BL1438	MT5	E26+27
MC3		MMK2	S23	338		BL1441	MT6	
MC4		MMK3	S24		1035			F1-010
MC5		MR2	S25		1036			F1-011
			S26		1037			
S2		MHS1	3208-2		1038			
S6		MHS2			1039			
S7		MHS3						
S8		MR6	S4069		2414			
S10			1055					
S11		MR10						
S12		MRM1						
S13		MRM2						
3021		MN9						
3170								
VIDEO1								
VIDEO2								
STU								

Tulliportinkatu 1

1 EDUCA

Philosophical Faculty
School of Educational Sciences and Psychology
Special Education
Education, Adult Education and Career Counsellor Education
School of Applied Educational Science and Teacher Education

2 LÄNSIKADUN KOULU

University Practice School
Comprehensive School, Grades e and 1 - 6

3 REGIA

Philosophical Faculty
School of Applied Educational Science and Teacher Education, Music

4-5 TULLIPORTIN KOULU

University Practice School
Comprehensive School, Grades 7 - 9 and Upper Secondary School

6 TAITOLA

Philosophical Faculty, Practical Subjects

Yliopistokatu 2

8 AURORA

Rector, Administration Centre
Centre for International Relations, CBU, Facilities Management,
Student Services, Print and Photo Services
Faculty of Social Sciences and Business
Department of Business
Department of Law
Language Centre
Finnish Student Health Service,
Aducate, Centre for Training and Development

Yliopistokatu 4

9 CARELIA

Library, Carelia Hall, Joensuu City Orchestra

10 AGORA

Philosophical Faculty
School of Humanities
Finnish Language and Cultural Research
Foreign Languages and Translation Studies
School of Theology
Western Theology
Orthodox Theology

Yliopistokatu 6

11

Provincial Archives

12 METLA

Finnish Forest Research Institute

Yliopistokatu 7

13 HALTIA

Maintenance Services

14 METRIA

Faculty of Science and Forestry
Department of Physics and Mathematics
Faculty of Social Sciences and Business
Department of Geographical and Historical Studies
Department of Social Sciences
Philosophical Faculty
School of Educational Sciences and Psychology
Psychology
IT Centre

15 BOREALIS

Faculty of Science and Forestry
School of Forest Sciences

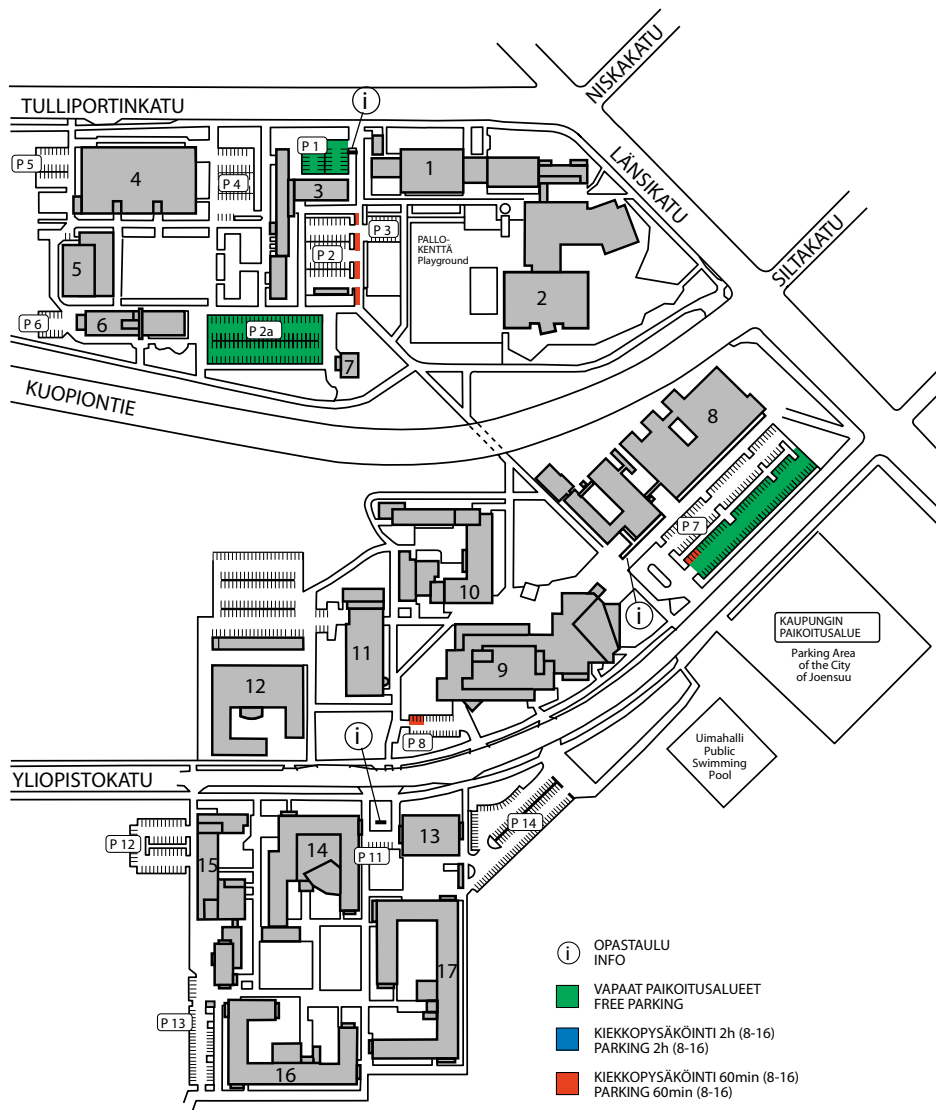
16 FUTURA

Faculty of Science and Forestry
Department of Chemistry
Faculty of Social Sciences and Business
Department of Geographical and Historical Studies, Geography

17 NATURA

Faculty of Science and Forestry
Department of Biology
Ecological Research Institute
Finnish Environment Institute, Joensuu Office
Environmental Laboratory

JOENSUUN KAMPUS
JOENSUU





UNIVERSITY OF
EASTERN FINLAND

www.uef.fi