T922101 Doctoral programme in wildlife biology research

T922101 Luonnonvaraisten eliöiden tutkimuksen tohtoriohjelma

T922101 Doktorandprogrammet för forskning i naturpopulationer

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	40 cr
Languages	English, Finnish, Swedish
Grading scale	Pass-Fail
Content approval required	no
Locations	Helsinki
University	University of Helsinki
Responsible organisation	Faculty of Biological and Environmental Sciences 100%
Degree programme type	Doctor's Degree
Degree titles	Doctor of Philosophy Doctor of Science (Agriculture and Forestry)
Study field	Fields of education (Ministry of Education and Culture), Agriculture and forestry
Education classification	865501 PhD, Agriculture, Forestry 845701 PhD, Biology 845703 PhD, Environmental Science 845601 PhD, Geography 865202 DSc, Forestry

Content description

EN: Profile

The Doctoral Programme in Wildlife Biology Research (Finnish acronym LUOVA) started in 1995 and was one of the first doctoral programmes founded in Finland. LUOVA is funded by the University of Helsinki and belongs to the Doctoral School in Environmental, Food and Biological Sciences (YEB).

LUOVA trains doctoral researchers in the fields of ecology, evolutionary biology, conservation, and management of natural populations and communities, as well as in taxonomy and systematics, and in computational biology. LUOVA covers both basic and applied research in these fields.

The programme is a joint collaboration of the two faculties in Viikki: Biological & Environmental Sciences and Agriculture & Forestry.

Short intensive courses on specific subject areas and methods in ecology and evolutionary and environmental biology complement the research of the doctoral researcher carried out in internationally rich research laboratories. Courses are either practically or lecture based and are usually assessed by written assignments or oral presentation of results.

Progress of doctoral researchers is followed not only by the supervisor but by a thesis advisory committee who monitors the progress of students throughout their research and studies.

International mobility

International activities are strongly encouraged and supported the program. The goal is that every student could participate annually in a congress, a course or a short-term research visit abroad. Participation in PhD courses abroad is supported. Longer visits abroad can also be included in the PhD degree.

Sustainability expertise

Sustainability expertise is embedded in the doctoral education and research of each doctoral researcher. Sustainability skills are strengthened as part of transferable skills studies in addition to those achieved in discipline specific studies. Doctoral degree programmes support development of knowledge, skills, values and attitudes towards sustainability, through collaboration, dialogue and peer support. The vast majority of the seventeen (17) UN Sustainable Development Goals (SDG's) are integrated in doctoral training offered by the doctoral programmes.

Practices for collecting and processing student feedback

Feedback is collected on each course organised by the programme. The feedback is analysed by the course organiser, coordinator, director and board and used for the development of future courses and curricula. LUOVA students provide feedback on their supervision in annual follow-up group meetings. This information is screened by the coordinator and an intervention is launched if required.

Learning outcomes

EN: Key learning outcomes/objectives of education

After obtaining a PhD from the LUOVA the student will be able to
· independently apply scientific research methods in the field of the programme

· produce new scientific knowledge

· critically evaluate the existing scientific knowledge

· collaborate with people from different backgrounds

· solve scientific, technical and practical problems in the field of the programme

· follow high ethical principles in your work

Additional information

EN: Job descriptions and labour market sectors

A doctoral degree opens the door to many interesting career possibilities. In addition to a purely academic career as a post-doctoral researcher, opportunities in the public and private sector in Finland and abroad are achievable. For instance: scientific experts in ministries, research and government agencies, research institutes, patent offices; administrative jobs in higher education establishments; scientific publishing and journalism; private companies; start-ups etc. The employment rate of LUOVA graduates is very high.

Procedures for the recognition and validation of prior learning

Link

Graduation practices and criteria

Scientific Content Studies (30 ECTS) and Transferable skills (10 ECTS) must be completed prior to preliminary examination of the doctoral dissertation. The review process of doctoral dissertations follows the rector's decision and any specific instructions from the faculty granting the degree.

Student supervision

Link to study guide

Structure

The total workload of four years of studies leading to a doctoral degree will correspond to 240 credits. Doctoral degrees may be pursued either full-time or part-time. The degree requirements are:

· a personal study plan

· 30 study credits in the field/research area of the thesis (to include research ethics and optionally research philosophy)

· 10 study credits of transferable skills, for example university pedagogy, management and leadership skills, negotiation and planning skills and scientific communication

· international mobility and activities

· a thesis

The doctoral thesis can be written as an article-based dissertation consisting of peer-reviewed scientific publications or manuscripts accepted for publication and a summary, or as a monograph of scientific work issued under the name of the doctoral researcher alone and based on previously unpublished results of independent research. In the majority of cases, the thesis is written in English.

Please check the more detailed instructions for thesis from faculty's webpages:
Faculty of Biological and environmental sciences
Faculty of Agriculture and forestry

DEGREE STRUCTURE

Part of the degree **Please note that you can only include 5ECTS of Master's level courses in your doctoral degree**	Credits
DOCTORAL PROGRAMME IN WILDLIFE BIOLOGY RESEARCH	40 cr
LUOVA-999 Doctoral thesis	0 cr
LUOVA-998 SCIENTIFIC CONTENT STUDIES	30 cr
STUDIES IN LUOVA'S FIELDS OF SCIENCE	
THEORETICAL STUDIES IN THE FIELD OF THE THESIS (complete at least 5 ECTS)	
LUOVA-101 Literature review	5 cr
LUOVA-102 Book examination	5 cr
LUOVA-103 Other theoretical studies	1-5 cr
LUOVA-104 Conservation and population genomics	1-5 cr
PRACTICAL STUDIES IN THE FIELD OF THE THESIS (complete at least 5 ECTS)	
LUOVA-301 Revise your basics of statistics	1 cr
LUOVA-302 Introduction to linear mixed models and GLMM in R	2 cr
LUOVA-303 Zero inflated models and GLMM in R	2 cr
LUOVA-304 Introduction to GAM and GAMM in R	2 cr
LUOVA-305 Linking data and ecological models	4 cr
LUOVA-306 Network analysis for ecological models	1-5 cr
LUOVA-307 Modelling of ecological data	1-5 cr
LUOVA-308 Student nominated methodological studies 1	1-5 cr
LUOVA-309 Student nominated methodological studies 2	1-5 cr
LUOVA-310 LUOVA writing retreat	1-2 cr
DPPS-303 Ecophysiology, ecology, evolutionary biology 3	1-3 cr
OTHER OPTIONAL STUDIES IN LUOVA'S FIELDS OF SCIENCE	
STUDIES SUPPORTING THE SCIENTIFIC DISCIPLINE	
ORIENTATION AND FOLLOW-UP (all are compulsory)	
LUOVA-001 LUOVA Orientation	1 cr
LUOVA-201 Thesis advisory committee meeting 1	0 cr
LUOVA-202 Thesis advisory committee meeting 2	0 cr
LUOVA-203 Thesis advisory committee meeting 3	0 cr
LUOVA-204 Thesis advisory committee meeting 4	0 cr
ETHICS (complete at least 2 ECTS)	
PHD-401 Research Ethics	1-2 cr

- **955001** The use of animals in research: Course for persons carrying out pro-cedures — 2-3 cr
- **955003** Eläinten käyttö tutkimuksessa: Kurssi toimenpiteiden tekijöille * — 2.5 cr

TEACHING

- **LUOVA-004** Teaching — 1-4 cr

LUOVA-005 Thesis supervision — 1-4 cr

COMMUNICATION SKILLS (complete at least 5 ECTS)

- **LUOVA-401** Talk at the annual LUOVA Spring Symposium 1 (compulsory) — 1 cr
- **LUOVA-402** Talk at the annual LUOVA Spring Symposium 2 — 1 cr
- **LUOVA-404** Talk or poster at an international conference 1 (compulsory) — 1 cr
- **LUOVA-405** Talk or poster at an international conference 2 — 1 cr
- **LUOVA-406** How to publish a paper in a scientific journal — 2 cr
- **LUOVA-407** Making science matter - increasing the impact of ecological findings — 3 cr
- **LUOVA-410** Other relevant communication skills studies — 1-4 cr
- **LUOVA-411** Talk at LUOVA research seminar — 1 cr
- **LUOVA-413** LUOVA research seminar — 1-2 cr
- **LUOVA-415** Public outreach activities — 1-3 cr

ORGANISING LUOVA ACTIVITIES AND EVENTS

- **LUOVA-403** Organising the annual LUOVA Spring Symposium — 2 cr
- **LUOVA-409** Organising LUOVA’s field trip to potential employers — 1-2 cr
- **LUOVA-408** Organising LUOVA's career seminar — 2 cr
- **LUOVA-412** Organising LUOVA research seminar — 1-2 cr

LUOVA CAREER PLANNING

- **LUOVA-416** Internship in LUOVA's field of science — 1-3 cr
- **LUOVA-417** LUOVA career course 1 — 1-3 cr
- **LUOVA-418** LUOVA career course 2 — 1-3 cr
- **LUOVA-419** Other relevant career planning studies — 1-4 cr

PUBLICATIONS OUTSIDE THE THESIS

- **LUOVA-006** Publication outside the thesis — 1-4 cr

RESEARCH VISITS

- **LUOVA-007** Research visit — 1-3 cr

OTHER OPTIONAL STUDIES SUPPORTING THE SCIENTIFIC DISCIPLINE

PHD-997 GENERAL COMPETENCE STUDIES — 10 cr

SCIENTIFIC THINKING (- WHAT IS SCIENCE?)

- **PHD-103** Philosophy of science — 1-5 cr
- **PHD-104** HCAS Winter/Summer School — 3 cr
- **PHD-151** Optional studies in scientific thinking 1 — 1-10 cr
- **PHD-152** Optional studies in scientific thinking 2 — 1-10 cr
- **PHD-153** Optional studies in scientific thinking 3 — 1-10 cr
- **PHD-102** Academic rhetoric and argumentation — 1-5 cr

SCIENTIFIC COMMUNICATION AND SOCIETAL IMPACT

- **PHD-201** Academic Pitching — 1-5 cr
- **PHD-202** Academic Writing and Editing — 2 cr
- **PHD-203** Conference presentation — 2 cr
- **HEALTH-124** Facing the Final Frontier: Preparing the Doctoral Dissertation Book for Health Scientists — 1 cr

PHD-205 Grant Writing I	1 cr
PHD-206 Grant Writing II	2 cr
PHD-207 Kirjoittamiskäytännöt: Luovuutta ja ideoita väitöskirjan kirjoitusprosssiin	1 cr
PHD-208 Luova tieteellinen kirjoittaminen	1-5 cr
PHD-251 Optional studies in scientific communication and societal impact 1	1-10 cr
PHD-252 Optional studies in scientific communication and societal impact 2	1-10 cr
PHD-253 Optional studies in scientific communication and societal impact 3	1-10 cr
PHD-218 Popularisation of science	1-2 cr
PHD-204 Poster presentation and data visualisation	1-2 cr
PHD-209 Principles of Peer Review	1 cr
PHD-211 Principles of Scientific Writing for Health Scientists 2 - from proposal to paper	2 cr
PHD-210 Principles of Scientific Writing for Health Scientists	2 cr
PHD-212 Science in Society	5 cr
PHD-217 Storytelling for Health Scientists	3 cr
TIVI-Y911 Tiedeviestintä: Asiantuntijana digitaalisessa mediassa	5 cr
TIVI-Y912 Scientific journalism	5 cr
TIVI-Y913 Tiedeviestintä Tieteen popularisointi	5 cr
PHD-213 Tutkijan verkkokirjoittaminen	3 cr
PHD-214 Väittelijän vuorovaikutusosaaminen	2 cr
PHD-215 Writing Doctoral Research for Health Scientists	3 cr
PHD-216 Writing Journal Article in Twelve Weeks	5 cr
PVM-604 Communicating Science and Expertise	5 cr
PVM-V308 Science Communication	5 cr
SUKU-S330 Concept analysis and terminology work	5 cr

WORKING LIFE SKILLS

HEALTH-114 Biomedical view to patenting	2 cr
PED511 UP1 Learning in Higher Education	5 cr
PED5121 UP 2.1 Constructive Alignment in Course Design	5 cr
PED5122 UP 2.2 Assessment of Learning and Giving Feedback	5 cr
PHD-101 PhD Career course	2 cr
PHD-303 Project management and leadership	2 cr
PHD-305 Biobusiness course	3 cr
PHD-306 Conference Organising	1-5 cr
PHD-307 Doctoral programme/school or university activities	1-2 cr
PHD-308 Mielekäs akateeminen työ	3 cr
PHD-309 Research funding	1-2 cr
PHD-310 Language studies supporting working life skills	1-5 cr
PHD-311 Ajanhallinnan haasteet muun työn ohessa väitöskirjaa tekeville	2 cr
PHD-351 Optional studies in professional development 1	1-10 cr
PHD-352 Optional studies in professional development 2	1-10 cr
PHD-353 Optional studies in professional development 3	1-10 cr
PHD-404 Industrial property rights	2 cr
PHD-503 Leading a creative expert organisation	1-5 cr
HEALTH-111 Optional courses: Management and Entrepreneurship	1-5 cr

RESPONSIBLE RESEARCH

LIB-900 Information Management for Doctoral Researchers	1 cr
NEU-603 Laboratory animal science	1-5 cr
PHD-301 Open Science	1 cr
PHD-302 Introduction to Open Data Science	5 cr
PHD-405 Doctoral Education Base Camp	3 cr
PHD-406 Responsible Research and Innovation (RRI)	1 cr
PHD-451 Optional studies in responsible research 1	1-10 cr
PHD-452 Optional studies in responsible research 2	1-10 cr
PHD-453 Optional studies in responsible research 3	1-10 cr
SUST-001 Sustainability course	3 cr
TKT21018 Elements of AI: Introduction to AI	2 cr

OTHER GENERAL COMPETENCE STUDIES

FILTERED STUDY MODULES

LUOVA-998 Scientific content studies

LUOVA-998 Tieteenalaopinnot

LUOVA-998 Studier inom vetenskapsområdet

Abbreviation: Tieteenalaopinn

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	30 cr
Languages	English, Finnish
Graded module	yes
Grading scale	Pass-Fail
Content approval required	no
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mar Cabeza Jaimejuan, Responsible teacher Mia Vehkaoja, Administrative person
Study module level	Other studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Learning outcomes

EN: Doctoral researchers who complete this module will:

- understand the disciplines in the doctoral programme and the central theories and concepts
- understand well the development of the discipline as well as the basic problems and research methods
- has reached a level of theoretical knowledge in both their own fields and those in related fields which allows them to follow their developments
- act ethically and responsibly in accordance with good scientific practise throughout their research work
- be able to participate in scientific debate orally and in writing in both their own field and in multi-disciplinary disciplines
- have created networks with other researchers in their field both nationally and internationally

Additional information

EN:

Target group

Students in LUOVA.

Timing

To be completed in conjunction with the doctoral thesis and prior to pre-examination of the thesis.

Studies are offered throughout the academic year.

Contents

The module consists of (in total 30 cr).

1. Studies in LUOVA's field of science

1.1. Theoretical studies in the field of the thesis (minimum 5 cr) Compulsory

1.2. Practical studies in the field of the thesis (minimum 5 cr) Compulsory

2. Studies supporting the scientific discipline

2.1. Orientation and follow-op (Complete all) Compulsory

2.2. Ethics (minimum 2 cr) Compulsory

2.3. Teaching (maximum 6 cr) Voluntary

2.4. Communication skills (minimum 5 cr) Compulsory

2.5. Organising LUOVAactivities / events (minimum 2 cr) Compulsory

2.6. LUOVA career planning, Voluntary

2.7. Publications outside the thesis (maximum 4 cr) Voluntary

2.8. Research visits (maximum 3 cr) Voluntary

Assessment practices and criteria

The module will be graded as Pass/Fail.

Other information

Instruction language: English.

Responsible person

Responsible professor or person of the student

Expiry of studies

Link to study guide

Study module structure	Credits
LUOVA-998 SCIENTIFIC CONTENT STUDIES	30 cr
STUDIES IN LUOVA'S FIELDS OF SCIENCE	
THEORETICAL STUDIES IN THE FIELD OF THE THESIS (complete at least 5 ECTS)	
LUOVA-101 Literature review	5 cr
LUOVA-102 Book examination	5 cr
LUOVA-103 Other theoretical studies	1-5 cr
LUOVA-104 Conservation and population genomics	1-5 cr
PRACTICAL STUDIES IN THE FIELD OF THE THESIS (complete at least 5 ECTS)	

LUOVA-301 Revise your basics of statistics	1 cr
LUOVA-302 Introduction to linear mixed models and GLMM in R	2 cr
LUOVA-303 Zero inflated models and GLMM in R	2 cr
LUOVA-304 Introduction to GAM and GAMM in R	2 cr
LUOVA-305 Linking data and ecological models	4 cr
LUOVA-306 Network analysis for ecological models	1-5 cr
LUOVA-307 Modelling of ecological data	1-5 cr
LUOVA-308 Student nominated methodological studies 1	1-5 cr
LUOVA-309 Student nominated methodological studies 2	1-5 cr
LUOVA-310 LUOVA writing retreat	1-2 cr
DPPS-303 Ecophysiology, ecology, evolutionary biology 3	1-3 cr
OTHER OPTIONAL STUDIES IN LUOVA'S FIELDS OF SCIENCE	
STUDIES SUPPORTING THE SCIENTIFIC DISCIPLINE	
ORIENTATION AND FOLLOW-UP (all are compulsory)	
LUOVA-001 LUOVA Orientation	1 cr
LUOVA-201 Thesis advisory committee meeting 1	0 cr
LUOVA-202 Thesis advisory committee meeting 2	0 cr
LUOVA-203 Thesis advisory committee meeting 3	0 cr
LUOVA-204 Thesis advisory committee meeting 4	0 cr
ETHICS (complete at least 2 ECTS)	
PHD-401 Research Ethics	1-2 cr
955001 The use of animals in research: Course for persons carrying out procedures	2-3 cr
955003 Eläinten käyttö tutkimuksessa: Kurssi toimenpiteiden tekijöille *	2.5 cr
TEACHING	
LUOVA-004 Teaching	1-4 cr
LUOVA-005 Thesis supervision	1-4 cr
COMMUNICATION SKILLS (complete at least 5 ECTS)	
LUOVA-401 Talk at the annual LUOVA Spring Symposium 1 compulsory	1 cr
LUOVA-402 Talk at the annual LUOVA Spring Symposium 2	1 cr
LUOVA-404 Talk or poster at an international conference 1 compulsory	1 cr
LUOVA-405 Talk or poster at an international conference 2	1 cr
LUOVA-406 How to publish a paper in a scientific journal	2 cr
LUOVA-407 Making science matter - increasing the impact of ecological find-ings	3 cr
LUOVA-410 Other relevant communication skills studies	1-4 cr
LUOVA-411 Talk at LUOVA research seminar	1 cr
LUOVA-413 LUOVA research seminar	1-2 cr
LUOVA-415 Public outreach activities	1-3 cr
ORGANISING LUOVA ACTIVITIES AND EVENTS	
LUOVA-403 Organising the annual LUOVA Spring Symposium	2 cr
LUOVA-409 Organising LUOVA’s field trip to potential employers	1-2 cr
LUOVA-408 Organising LUOVA's career seminar	2 cr
LUOVA-412 Organising LUOVA research seminar	1-2 cr
LUOVA CAREER PLANNING	
LUOVA-416 Internship in LUOVA's field of science	1-3 cr
LUOVA-417 LUOVA career course 1	1-3 cr

FILTERED COURSES

LUOVA-999 Doctoral thesis

LUOVA-999 Väitöskirja
LUOVA-999 Doktorsavhandling

Abbreviation: Väitöskirja

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	0 cr
Languages	English, Finnish
Grading scale	Fail-Pass-Pass with Distinction
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible person	Responsible teacher
Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

LUOVA-101 Literature review

LUOVA-101 Literature review
LUOVA-101 Literature review

Abbreviation: Literature revi

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	5 cr
Languages	English, Finnish
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Responsible teacher Mia Vehkaoja, Administrative person
Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Learning outcomes

EN: After completing the literature review the doctoral researcher has in-depth knowledge on the most relevant theories and concepts of his/her field.

Additional information

EN:

Timing

The literature review should be completed at any time within the first two years of doctoral studies.

Contents

Independent study and written review.

Assessment practices and criteria

Pass/Fail

Completion

The literature review may be completed in an essay form. It should contain the following sections:

- cover
- table of contents
- introduction
- clearly defined topic
- division of the text into paragraphs
- conclusions
- references

The literature review may be published as a review article in a scientific journal.

Other information

In English.

Responsible person

Supervisor/coordinating academic

Expiry of studies

Link to study guide

Completion method and assessment items	Recurrence	Credits
Method 1		5 cr
Independent study		5 cr

LUOVA-102 Book examination

LUOVA-102 Book examination

LUOVA-102 Book examination

Abbreviation: Book examinatio

Curriculum period	2023-24
Validity period	since 1 Aug 2023
Credits	5 cr
Languages	English, Finnish
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Responsible teacher Mia Vehkaoja, Administrative person
Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Learning outcomes

EN: After completing the book exam, doctoral researchers will have developed a deepening theoretical knowledge of the chosen subject area.

Additional information

EN:

Timing

The book exam should be completed at any time within the first two years of doctoral studies.

Completion methods

As agreed between the doctoral researcher and the supervisor

Assessment practices and criteria

Pass/Fail

Completion

5 credits

50 pages of concise scientific text (for example review articles) = 1 credit; 100 pages of other text (for example text book chapters) = 1 credit

The content should be agreed with the person in charge of studies.

Other information

Instruction language: English, Finnish, Swedish.

Responsible person

Supervisor/coordinating academic

Expiry of studies

Link to study guide

Completion method and assessment items	Recurrence	Credits
Method 1		5 cr
Exam		5 cr

LUOVA-103 Other theoretical studies

LUOVA-103 Other theoretical studies

LUOVA-103 Other theoretical studies

Abbreviation: Other theoretic

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	1-5 cr
Languages	English, Finnish
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Responsible teacher Mia Vehkaoja, Administrative person
Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Learning outcomes

EN: After completing other theoretical studies, the doctoral researcher has in-depth knowledge on the most relevant theories and concepts of his/her field.

Additional information

EN:

Timing

To be completed at any time during doctoral studies

Completion methods

As agreed with the supervisor or person in charge of studies

Contents

The most relevant theories and concepts of the doctoral researcher's thesis

Activities and teaching methods in support of learning

As agreed with the supervisor or person in charge of studies

Assessment practices and criteria

Pass/Fail

Other information

Teaching language: English or as agreed with the supervisor or person in charge of studies

Responsible person

Supervisor/coordinating academic

Expiry of studies

Link to study guide

Completion method and assessment items Recurrence	Credits
Method 1	1 cr
Participation in teaching (min)	1 cr
Method 2	1-5 cr
Participation in teaching	1-5 cr

LUOVA-104 Conservation and population genomics

LUOVA-104 Conservation and population genomics

LUOVA-104 Conservation and population genomics

Curriculum periods	2022-23, 2023-24, 2024-25, 2025-26
Validity period	since 1 Jan 2023
Credits	1-5 cr
Languages	English
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Administrative person Mia Vehkaoja, Responsible teacher
Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Completion method and assessment items Recurrence	Credits
Method 1	1 cr
Participation in teaching	1 cr
Method 2	2 cr
Participation in teaching	2 cr
Method 3	3 cr
Participation in teaching	3 cr
Method 4	4 cr
Participation in teaching	4 cr
Method 5	5 cr
Participation in teaching	5 cr

LUOVA-301 Revise your basics of statistics

LUOVA-301 Revise your basics of statistics

LUOVA-301 Revise your basics of statistics

Abbreviation: Revise your bas

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	1 cr
Languages	English, Finnish
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Responsible teacher Mia Vehkaoja, Administrative person
Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Prerequisites

EN: Participants should have previously taken a course on basic statistics or otherwise be familiar with the above methods as the aim of this course is to revise your skills, not to start from the beginning.
Previous experience of R is not required but, if not already familiar with R, participants should have an open mind and be ready to run the course exercises in R as instructed keeping in mind that the main purpose of this course is to refresh one's memory on the basics of statistics. The use of R will be taught on YEB doctoral school's YEB-115 Data, graphics and programming in R course.

This course is not compulsory but highly recommended to those who are unsure of their statistics skills and are planning to take YEB doctoral school's YEB-115 Data, graphics, and programming in R, and YEB-116 Data exploration, regression, GLM and GAM.

Learning outcomes

EN: This brief course will refresh course participants' knowledge on the basics of statistics and the philosophy of science. Topics covered are:

1. Mean
2. Variance
3. Distributions
4. Hypothesis testing
5. T-test and its non-parametric companions
6. ANOVA and its non-parametric companions
7. Correlations

Additional information

EN:

Timing

The course unit can be completed at any time during doctoral studies.

The course unit is offered each autumn term in the second period.

Contents

- Mean
- Variance
- Distributions

- Hypothesis testing
- T-test and its non-parametric companions
- ANOVA and its non-parametric companions
- Correlations

Assessment practices and criteria

Grading: pass/fail
80% attendance required

Completion

The structure of the two-day course is built on introductory lectures to each topic, coupled with computer exercises run in R. During the course we may also briefly cover topics suggested by the students and not listed above. The course will keep it simple.

Responsible person

Course teacher

Expiry of studies

Link to study guide

Completion method and assessment items	Recurrence	Credits
Method 1		1 cr
Participation in teaching		1 cr

LUOVA-302 Introduction to linear mixed models and GLMM in R

LUOVA-302 Introduction to linear mixed models and GLMM in R
LUOVA-302 Introduction to linear mixed models and GLMM in R

Abbreviation: Introduction to

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	2 cr
Languages	English, Finnish
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Responsible teacher Mia Vehkaoja, Administrative person
Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Prerequisites

EN: Participants must have taken YEB doctoral school's YEB-116 Data exploration, regression, GLM & GAM course or otherwise acquired the skills taught on that course:

- Data exploration (outliers, collinearity, transformations, relationships, interactions)
- Linear regression (model selection, interactions, dealing with categorical covariates, sketching model fit)

- GLM with various distributions (Poisson GLM, negative binomial GLM, Bernoulli GLM) and dealing with overdispersion
- GAM with various distributions (Gaussian GAM, Poisson GAM, negative binomial GAM)

Participants must be able to run the above analyses in R.

Each participant's skills will be tested by a simple on-line quizz before the course starts and seats will be offered to doctoral candidates with background skills needed for course completion.

Learning outcomes

EN: After completing the course the participants recognise pseudo-replication and know how to deal with it as well as with nested data. Furthermore, participants will be familiar with the following methods:

1. Bayesian statistics
2. MCMC
3. linear mixed effects models
4. generalised linear mixed effects models

Additional information

EN:

Timing

To be completed at any time during doctoral studies according to the schedule of taught courses (offered every third year in the autumn term (2017, 2020 etc.)

Contents

- The course starts with a basic introduction to linear mixed effects models, followed by an introduction to Bayesian statistics, MCMC and generalised linear mixed effects models (GLMM) to analyse nested (also called hierarchical or clustered) data, e.g. multiple observations from the same animal, site, area, nest, patient, hospital, vessel, lake, hive, transect, etc.
- During the course several case studies are presented, in which the statistical theory for mixed models is integrated with applied analyses in a clear and understandable manner.
- Throughout the course MCMC is executed in JAGS (free software) via the package R2jags from within R. Bayesian and frequentist (lme4, nlme, glmmADMB) analyses are compared.

Assessment practices and criteria

Grading: pass/fail
As the course is very demanding and advances fast, full attendance is required. Missing even a half day of teaching would make following the rest of the course very hard, if not impossible.

Completion

The structure of the five-day intensive course is built on introductory lectures and demonstrations to each topic coupled with computer exercises run in R. The course is taught by Dr. Alain Zuur and Elena Ieno from Highland Statistics (www.highstat.com).

Other information

Instruction language: English

Responsible person

Course teacher

Expiry of studies

Link to study guide

Completion method and assessment items	Recurrence	Credits
Method 1		2 cr
Participation in teaching		2 cr

LUOVA-303 Zero inflated models and GLMM in R

LUOVA-303 Zero inflated models and GLMM in R

LUOVA-303 Zero inflated models and GLMM in R

Abbreviation: Zero inflated m

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	2 cr
Languages	English, Finnish
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Responsible teacher Mia Vehkaoja, Administrative person
Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Prerequisites

EN: Participants must have taken YEB doctoral school's YEB-116 Data exploration, regression, GLM & GAM course or otherwise acquired the skills taught on that course:

- Data exploration (outliers, collinearity, transformations, relationships, interactions)
- Linear regression (model selection, interactions, dealing with categorical covariates, sketching model fit)
- GLM with various distributions (Poisson GLM, negative binomial GLM, Bernoulli GLM) and dealing with overdispersion
- GAM with various distributions (Gaussian GAM, Poisson GAM, negative binomial GAM)

Mixed modelling is strongly recommended, but a short revision of GLM and mixed modelling is provided.

Participants must be able to run the above analyses in R.

Each participant's skills will be tested by a simple on-line quiz before the course starts and seats will be offered to doctoral candidates with background skills needed for course completion.

Learning outcomes

EN: After completing the course the participants recognise pseudo-replication and overdispersion and know how to deal with them as well as with data with excessive number of zeros. Furthermore, participants will be familiar with the following methods and concepts:

- Bayesian statistics
- MCMC
- linear mixed effects models
- generalised linear mixed effects models
- zero inflated GLM (ZIP, ZAP)
- zero inflated GLMMs with random effects
- Poisson, negative binomial, gamma, and binomial distributions.

Additional information

EN:

Timing

The course unit can be completed at any time during doctoral studies.

The course unit is offered every third year in the autumn term (2018, 2021, 2024 etc..)

Contents

What is zero inflation? Suppose you want to study hippos and the effect of habitat variables on their distribution. When sampling, you may count zero hippos at many sites and therefore zero inflated models should be used.

During the course several case studies are presented, in which the statistical theory for zero inflated models is integrated with applied analyses in a clear and understandable manner. Zero inflated models consist of two integrated GLMs and therefore we will start with a revision of GLM. Zero inflated GLMMs for nested data (repeated measurements, short time series, clustered data, etc.) are discussed in the second part of the course. We will focus on zero inflated count data, and zero inflated continuous data.

Assessment practices and criteria

Grading: pass/fail
As the course is very demanding and advances fast, full attendance is required. Missing even a half day of teaching would make following the rest of the course very hard, if not impossible.

Completion

The structure of the five-day intensive course is built on introductory lectures and demonstrations to each topic coupled with computer exercises run in R. The course is taught by Dr. Alain Zuur and Elena Ieno from Highland Statistics (www.highstat.com).

Responsible person

Course teacher

Expiry of studies

Link to study guide

Completion method and assessment items	Recurrence	Credits
Method 1		2 cr
Participation in teaching		2 cr

LUOVA-304 Introduction to GAM and GAMM in R

LUOVA-304 Introduction to GAM and GAMM in R

LUOVA-304 Introduction to GAM and GAMM in R

Abbreviation: Introduction to

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	2 cr
Languages	English, Finnish
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Responsible teacher Mia Vehkaoja, Administrative person

Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Prerequisites

EN: Participants must have taken YEB doctoral school's YEB-116 Data exploration, regression, GLM & GAM course or otherwise acquired the skills taught on that course:

- Data exploration (outliers, collinearity, transformations, relationships, interactions)
- Linear regression (model selection, interactions, dealing with categorical covariates, sketching model fit)
- GLM with various distributions (Poisson GLM, negative binomial GLM, Bernoulli GLM) and dealing with overdispersion
- GAM with various distributions (Gaussian GAM, Poisson GAM, negative binomial GAM)

Mixed modelling and MCMC is strongly recommended, but a short revision is provided.

Participants must be able to run the above analyses in R.

Each participant's skills will be tested by a simple on-line quizz before the course starts and seats will be offered to doctoral candidates with background skills needed for course completion.

Learning outcomes

EN: After completing the course the participants recognise pseudo-replication and know how to deal with it as well as with data with non-linear patterns. Furthermore, participants will be familiar with the following methods and concepts:

- Bayesian statistics
- MCMC
- multiple linear regression
- generalised linear models
- mixed effects models
- generalised additive models (GAM)
- generalised additive mixed effects models (GAMM)

Additional information

EN:

Timing

The course unit can be completed at any time during doctoral studies.

The course unit is offered every third year in the autumn term (2019, 2022 etc.)

Contents

- The course begins with a revision of multiple linear regression, generalised linear models, mixed effects modelling and Bayesian statistics (MCMC).
- Sometimes, parametric models do not quite fit the data and in such cases generalised additive models (GAM; a smoothing technique) can be used.
- We will explain and illustrate GAMs to analyse continuous data, count data and binary data.
- In the second part of the course we use generalised additive mixed effects models (GAMM) to analyse nested (also called hierarchical or clustered) data, e.g. multiple observations from the same animal, site, area, nest, patient, hospital, vessel, lake, hive, transect, etc.
- During the course several case studies are presented, in which the statistical theory is integrated with applied analyses in a clear and understandable manner.
- We will use frequentist (mgcv, gamm4) and Bayesian tools (MCMC in JAGS).

Assessment practices and criteria

Grading: pass/fail

As the course is very demanding and advances fast, full attendance is required. Missing even a half day of teaching would make following the rest of the course very hard, if not impossible.

Completion

The structure of the five-day intensive course is built on introductory lectures and demonstrations to each topic coupled with computer exercises run in R. The course is taught by Dr. Alain Zuur and Elena Ieno from Highland Statistics (www.highstat.com).

Other information

Instruction language: English.

Responsible person

Course teacher

Expiry of studies

Link to study guide

Completion method and assessment items	Recurrence	Credits
Method 1		2 cr
Participation in teaching		2 cr

LUOVA-305 Linking data and ecological models

LUOVA-305 Linking data and ecological models

LUOVA-305 Linking data and ecological models

Abbreviation: Linking data an

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	4 cr
Languages	English, Finnish
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Responsible teacher Mia Vehkaoja, Administrative person
Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Prerequisites

EN: The course is suitable for both doctoral researchers and advanced master's students (from the 3rd year on), however, with the requirement of basic knowledge in statistics.

Learning outcomes

EN: This course gives a broad view of the techniques, principles and philosophy of modern statistics, using gentle examples from the field of ecology. We discuss different ways of including randomness in statistical models, learn the concept of likelihood functions, and go through different general procedures for esti-

mating parameters and their uncertainty. We learn the basic principles of frequentist, information theoretic and Bayesian statistics, and compare their results.
The aim is to give the participants the basic knowledge needed for flexibly using statistical software. The course should equip the student with the theoretical background and terminology needed for understanding methods commonly used in research papers, including statistical analyses going beyond the basics.
We do not concentrate on introducing a wide range of models and experimental designs, but the course should indeed help to independently apply and learn to use more specific statistical tools that can be looked-up from other sources.

Additional information

EN:

Timing

The course unit can be completed at any time during doctoral studies.

The course unit is offered every second year in the spring term (2018, 2020 etc.)

Contents

- What are statistics?
- Stochastic processes and probability distributions
- The likelihood function
- Frequentist inference
- Computing intensive simulation methods
- Information theoretic inference
- Bayesian inference
- Comparison of inferential approaches

Assessment practices and criteria

Lectures, computer exercises (using software such as Excel and R) and independent work at home. There are three home exercises and one home exam.

Grading: pass/fail
80% attendance required

Completion

The course consists of lectures, computer exercises (using software such as Excel and R) and independent work at home. There are three home exercises and one home exam.

Other information

Instruction language: English.

Responsible person

Course teacher

Expiry of studies

Link to study guide

Completion method and assessment items	Recurrence	Credits
Method 1		4 cr
Participation in teaching		4 cr

LUOVA-306 Network analysis for ecological models

LUOVA-306 Network analysis for ecological models

LUOVA-306 Network analysis for ecological models

Abbreviation: Network anal

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	1-5 cr
Languages	English, Finnish
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Responsible teacher Mia Vehkaoja, Administrative person
Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Learning outcomes

EN: After completing other methodological studies, the doctoral researcher has in-depth knowledge on the most relevant methods and concepts of his/her field.

Additional information

EN:

Timing

To be completed at any time during doctoral studies

Completion methods

As agreed with the supervisor or person in charge of studies

Contents

The most relevant methods and concepts of the doctoral candidate’s thesis

Activities and teaching methods in support of learning

As agreed with the supervisor or person in charge of studies

Assessment practices and criteria

Pass/Fail

Other information

Language: English or as agreed with the supervisor or person in charge of studies

Responsible person

Course teacher

Expiry of studies

Link to study guide

Completion method and assessment items	Recurrence	Credits
Method 1		1-5 cr
Participation in teaching		1-5 cr

LUOVA-307 Modelling of ecological data

LUOVA-307 Modelling of ecological data

LUOVA-307 Modelling of ecological data

Abbreviation: Modelling ecol

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	1-5 cr
Languages	English, Finnish
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Responsible teacher Mia Vehkaoja, Administrative person
Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Additional information

EN:

Study methods

This course will provide students with a theoretical and methodological introduction to modelling of ecological data, with focused training in the use and interpretation of a number of contemporary analytical methods and software tools in the field, including: introduction to Geographical Information Systems with QGIS and/or ArcGIS, landscape pattern analysis with FRAGSTATS, multi-scale resource selection functions with R, and genetic population connectivity modelling with UNICOR.

Additional info

Full participation in the course and completing the course assignments.

This course is designed for students and researchers who are interested in modelling of ecological data. With the help of worked out examples, the participants learn fundamental theories on modelling of ecological data during the lectures and how to conduct and interpret statistical analyses in practice during the lab sessions. The participants are encouraged to bring also their own data so that they can get hands-on support of their own projects.

Participants do not need any prior knowledge on modelling of ecological data but should understand basic ecological principles. Regarding software to be used, basic/intermediate skills in R and GIS are recommended to successfully being able to participate in the workshop.

Expiry of studies

Link to study guide

Completion method and assessment items	Recurrence	Credits
Method 1		1-5 cr
Participation in teaching		1-5 cr

LUOVA-308 Student nominated methodological studies 1

LUOVA-308 Student nominated methodological studies 1
LUOVA-308 Student nominated methodological studies 1

Abbreviation: Student nominated

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	1-5 cr
Languages	English, Finnish
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Responsible teacher Mia Vehkaoja, Administrative person
Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Additional information

EN: Expiry of studies
Link to study guide

Completion method and assessment items	Recurrence	Credits
Method 1		1 cr
Participation in teaching		1 cr

LUOVA-309 Student nominated methodological studies 2

LUOVA-309 Student nominated methodological studies 2
LUOVA-309 Student nominated methodological studies 2

Abbreviation: Student nomin 2

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	1-5 cr
Languages	English
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Responsible teacher Mia Vehkaoja, Administrative person
Study level	Postgraduate studies

Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Additional information

EN: Expiry of studies
Link to study guide

Completion method and assessment items	Recurrence	Credits
Method 1		1-5 cr
Participation in teaching		1-5 cr

LUOVA-310 LUOVA writing retreat

LUOVA-310 LUOVA writing retreat
LUOVA-310 LUOVA writing retreat

Abbreviation: LUOVA writing

Curriculum periods	2022-23, 2023-24, 2024-25, 2025-26
Validity period	since 1 Jan 2023
Credits	1-2 cr
Languages	English
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Responsible teacher Mia Vehkaoja, Administrative person
Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Additional information

EN:

Target group

LUOVA doctoral researchers

Timing

Objective

To complete a journal article, thesis chapter, application, proposal, other scientific text relevant for your thesis.

Contents

Participants will be able to send their manuscripts, proposals or other written work one week in advance to course teachers. The first day of the course will include feedback to the participants based on their material, after which there will be time for writing and improvement.

Completion

100% participation

Completion of the written text

Completion method and assessment items	Recurrence	Credits
Method 1		2 cr
Participation in teaching		2 cr
Method 2		1 cr
Participation in teaching		1 cr
Method 3		1-2 cr
Participation in teaching		1-2 cr

LUOVA-001 LUOVA Orientation

LUOVA-001 LUOVA Orientation

LUOVA-001 LUOVA Orientation

Abbreviation: LUOVA Orientati

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	1 cr
Languages	English, Finnish
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Responsible teacher Mia Vehkaoja, Administrative person
Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Learning outcomes

EN: After completing the orientation, doctoral researchers will
· be familiar with the requirements of completing a PhD at the University of Helsinki

· be capable of self-direction and self-management in learning

· have developed interaction, communication and digital skills

· have an understanding of the scientific community and support system surrounding their research

· be familiar with future career options available to them

Additional information

EN:

Timing

To be completed within three months of receiving post-graduate study rights

Offered every year, once in the spring and once in the autumn (dependent on the application dates for post-graduate study rights)

Format

Orientation will be held together with the other doctoral programmes in the YEB doctoral school.

Content

Orientation will cover the following topics:

· LUOVA profile and research areas

· LUOVA degree structure and courses

· Thesis committee meetings

· International mobility

· Research community

· Career prospects

· Digital services

· Support services

· Feedback

Study materials
Doctoral programme webpages, Doctoral programme welcome letter, YEB Code of Conduct

Expiry of studies

Link to study guide

Completion method and assessment items	Recurrence	Credits
Method 1		1 cr
Participation in teaching		1 cr
Method 2		1 cr
Independent study		1 cr

LUOVA-201 Thesis advisory committee meeting 1

LUOVA-201 Thesis advisory committee meeting 1
LUOVA-201 Thesis advisory committee meeting 1

Abbreviation: Thesis advisory

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	0 cr
Languages	English, Finnish
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Responsible teacher Mia Vehkaoja, Administrative person
Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Content

EN: No registration in Sisu. Compulsory.

Additional information

EN:

Timing

The first thesis committee meeting should be completed within 3-4 months after beginning doctoral studies, thereafter, one meeting should be held each year. Four meetings must be completed before the doctoral thesis pre-examination phase.

Completion methods

Chairing the meeting
Completion of a thesis committee report in Thessa before the meeting, and addition of conclusions after the meeting.

Contents

The thesis committee meeting will cover some or all of the following topics:

- Course planning
- International mobility planning
- Publication planning
- Research or study visit planning
- Funding planning if required
- Feedback

Activities and teaching methods in support of learning

Preparation of a report and presentation

Completion

Pass/Fail

Responsible person

LUOVA office

Credit registration

Credits will be registered by the LUOVA office twice a year based on Thessa reports.

Expiry of studies

Link to study guide

Completion method and assessment items	Recurrence	Credits
Method 1		0 cr
Independent study		0 cr

LUOVA-202 Thesis advisory committee meeting 2

LUOVA-202 Thesis advisory committee meeting 2
LUOVA-202 Thesis advisory committee meeting 2

Abbreviation: Thesis advisory

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	0 cr
Languages	English, Finnish
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%

Responsible persons	Mia Vehkaoja, Responsible teacher Mia Vehkaoja, Administrative person
Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Content

EN: No registration in Sisu. Compulsory.

Additional information

EN:

Timing

The first thesis committee meeting should be completed within 3-4 months after beginning doctoral studies, thereafter, one meeting should be held each year. Four meetings must be completed before the doctoral thesis pre-examination phase.

Completion methods

Chairing the meeting
Completion of a thesis committee report in Thessa before the meeting, and addition of conclusions after the meeting.

Contents

The thesis committee meeting will cover some or all of the following topics:

- Course planning
- International mobility planning
- Publication planning
- Research or study visit planning
- Funding planning if required
- Feedback

Activities and teaching methods in support of learning

Preparation of a report and presentation

Completion

Pass/Fail

Responsible person

LUOVA office

Credit registration

Credits will be registered by the LUOVA office twice a year based on Thessa reports.

Expiry of studies

Link to study guide

Completion method and assessment items	Recurrence	Credits
Method 1		0 cr
Independent study		0 cr

LUOVA-203 Thesis advisory committee meeting 3

LUOVA-203 Thesis advisory committee meeting 3

LUOVA-203 Thesis advisory committee meeting 3

Abbreviation: Thesis advisory

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	0 cr
Languages	English, Finnish
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Responsible teacher Mia Vehkaoja, Administrative person
Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Content

EN: No registration in Sisu. Compulsory.

Additional information

EN:

Timing

The first thesis committee meeting should be completed within 3-4 months after beginning doctoral studies, thereafter, one meeting should be held each year. Four meetings must be completed before the doctoral thesis pre-examination phase.

Completion methods

Chairing the meeting
Completion of a thesis committee report in Thessa before the meeting, and addition of conclusions after the meeting.

Contents

The thesis committee meeting will cover some or all of the following topics:

- Course planning
- International mobility planning
- Publication planning
- Research or study visit planning
- Funding planning if required
- Feedback

Activities and teaching methods in support of learning

Preparation of a report and presentation

Completion

Pass/Fail

Responsible person

LUOVA office

Credit registration

Credits will be registered by the LUOVA office twice a year based on Thessa reports.

Expiry of studies

Link to study guide

Completion method and assessment items	Recurrence	Credits
Method 1		0 cr
Independent study		0 cr

LUOVA-204 Thesis advisory committee meeting 4

LUOVA-204 Thesis advisory committee meeting 4
LUOVA-204 Thesis advisory committee meeting 4

Abbreviation: Thesis advisory

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	0 cr
Languages	English, Finnish
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Responsible teacher Mia Vehkaoja, Administrative person
Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Content

EN: No registration in Sisu. Compulsory.

Additional information

EN:

Timing

The first thesis committee meeting should be completed within 3-4 months after beginning doctoral studies, thereafter, one meeting should be held each year. Four meetings must be completed before the doctoral thesis pre-examination phase.

Completion methods

Chairing the meeting
Completion of a thesis committee report in Thessa before the meeting, and addition of conclusions after the meeting.

Contents

The thesis committee meeting will cover some or all of the following topics:

- Course planning
- International mobility planning
- Publication planning
- Research or study visit planning

- Funding planning if required
- Feedback

Activities and teaching methods in support of learning

Preparation of a report and presentation

Completion

Pass/Fail

Responsible person

LUOVA office

Credit registration

Credits will be registered by the LUOVA office twice a year based on Thessa reports.

Expiry of studies

Link to study guide

Completion method and assessment items	Recurrence	Credits
Method 1		0 cr
Independent study		0 cr

LUOVA-004 Teaching

LUOVA-004 Teaching

LUOVA-004 Teaching

Abbreviation: Teaching

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	1-4 cr
Languages	English, Finnish
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Responsible teacher Mia Vehkaoja, Administrative person
Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Content

EN: No registration in Sisu.

Additional information

EN:

Timing

To be completed at any time during doctoral studies

Offered according to the schedule of taught courses

Completion methods

Teaching will be guided by the responsible teacher for the course

Contents

According to the taught course content

Activities and teaching methods in support of learning

Course preparation and contact teaching

Assessment practices and criteria

Feedback from the teacher

Pass/Fail

5 hours of lecturing (including preparation) = 1 credit

10 hours of contact teaching (including preparation) = 1 credit

Responsible person

Course teacher/Supervisor/coordinating academic

Credit registration

Complete the credit registration form and send it together with details of the course you taught and a confirmation from the main teacher of the course to the LUOVA office.

Expiry of studies

Link to study guide

Completion method and assessment items	Recurrence	Credits
Method 1		1-4 cr
Independent study		1-4 cr

LUOVA-005 Thesis supervision

LUOVA-005 Thesis supervision

LUOVA-005 Thesis supervision

Abbreviation: Thesis supervis

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	1-4 cr
Languages	English, Finnish
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Responsible teacher Mia Vehkaoja, Administrative person
Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Content

EN: No registration in Sisu

Additional information

EN:

Timing

To be completed at any time after the first year of doctoral studies

According to when a master's student, summer trainee or other project worker is assigned

Completion methods

Supervision is ongoing throughout the whole project

Contents

Supervision is ongoing throughout the whole project

Activities and teaching methods in support of learning

Preparation, planning and feedback

Assessment practices and criteria

Feedback from the student, trainee or project worker along with that of the group supervisor

1 credit per supervised student or trainee

Completion

Documentation of the supervision in the form of a report which has been discussed and agreed upon with both the student/trainee and the supervisor

Responsible person

Supervisor/coordinating academic

Credit registration

Complete the credit registration form and send it together with a supervision report to the LUOVA office.

Expiry of studies

Link to study guide

Completion method and assessment items	Recurrence	Credits
Method 1		1-4 cr
Independent study		1-4 cr

LUOVA-401 Talk at the annual LUOVA Spring Symposium 1

LUOVA-401 Talk at the annual LUOVA Spring Symposium 1

LUOVA-401 Talk at the annual LUOVA Spring Symposium 1

Abbreviation: Talk at the ann

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	1 cr
Languages	English, Finnish
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%

Responsible persons	Mia Vehkaoja, Responsible teacher Mia Vehkaoja, Administrative person
Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Learning outcomes

EN: After completing the course unit the doctoral researcher:

- knows how to prepare a conference presentation (poster or talk),
- can present his/her work to colleagues in English,
- can discuss his/her work with international colleagues, and
- has networked with his/her peers and other colleagues within the LUOVA community

Additional information

EN:

Timing

The course unit can be completed at any time during doctoral studies.

The course unit is offered each spring term in the third period.

Assessment practices and criteria

Pass/Fail

Completion

Preparing a presentation and presenting it at the Spring Symposium.

Other information

Instruction language: English.

Responsible person

LUOVA director

Expiry of studies

Link to study guide

Completion method and assessment items	Recurrence	Credits
Method 1		1 cr
Independent study		1 cr

LUOVA-402 Talk at the annual LUOVA Spring Symposium 2

LUOVA-402 Talk at the annual LUOVA Spring Symposium 2
LUOVA-402 Talk at the annual LUOVA Spring Symposium 2

Abbreviation: Talk at the ann

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	1 cr
Languages	English, Finnish
Grading scale	Pass-Fail
University	University of Helsinki

Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Responsible teacher Mia Vehkaoja, Administrative person
Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Learning outcomes

EN: After completing the course unit the doctoral researcher has deepened his/her skills in:

- preparing a conference presentation (poster or talk),
- presenting his/her work to colleagues in English, and
- discussing his/her work with international colleagues.

Furthermore, the doctoral candidate has deepened his/her networks with his/her peers and other colleagues within the LUOVA community, and with his/her own actions made new LUOVA members feel welcome to the community.

Additional information

EN:

Timing

The course unit can be completed at any time during doctoral studies.

The course unit is offered each spring term in the third period.

Assessment practices and criteria

Pass/Fail

Completion

Preparing a presentation and presenting it at the Spring Symposium.

Other information

Instruction language: English.

Responsible person

LUOVA director

Expiry of studies

Link to study guide

Completion method and assessment items	Recurrence	Credits
Method 1		1 cr
Independent study		1 cr

LUOVA-404 Talk or poster at an international conference 1

LUOVA-404 Talk or poster at an international conference 1

LUOVA-404 Talk or poster at an international conference 1

Abbreviation: Talk or poster

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	1 cr

Languages	English, Finnish
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Responsible teacher Mia Vehkaoja, Administrative person
Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Learning outcomes

EN: After taking part in an international conference, doctoral researchers will
· be familiar with presentation of results to peers

· have developed and improved their collaboration and interaction skills

· have created a wider network of researchers and contacts

Content

EN: No registration in Sisu

Additional information

EN:

Timing

To be completed at any time during doctoral studies.

According to the schedule of the doctoral researcher's own research

Completion methods

Full attendance and participation at the conference with either an oral or poster presentation is required

A short (one page) report must be written after the conference

Contents

- Attendance at the conference
- Oral or poster presentation
- Written report

Credit registration

Complete the credit registration form and send it together with the certificate of your attendance and your report to the LUOVA office.

Expiry of studies

Link to study guide

Completion method and assessment items	Recurrence	Credits
Method 1		1 cr
Independent study		1 cr

LUOVA-405 Talk or poster at an international conference 2

LUOVA-405 Talk or poster at an international conference 2

LUOVA-405 Talk or poster at an international conference 2

Abbreviation: Talk or poster

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	1 cr
Languages	English, Finnish
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Responsible teacher Mia Vehkaoja, Administrative person
Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Learning outcomes

EN: After taking part in an international conference, doctoral researchers will
· be familiar with presentation of results to peers

· have developed and improved their collaboration and interaction skills

· have created a wider network of researchers and contacts

Content

EN: No registration in Sisu

Additional information

EN:

Timing

To be completed at any time during doctoral studies.

According to the schedule of the doctoral researcher's own research

Completion methods

Full attendance and participation at the conference with either an oral or poster presentation is required

A short (one page) report must be written after the conference

Contents

- Attendance at the conference
- Oral or poster presentation
- Written report

Credit registration

Complete the credit registration form and send it together with the certificate of your attendance and your report to the LUOVA office.

Expiry of studies

Link to study guide

Completion method and assessment items	Recurrence	Credits
Method 1		1 cr
Independent study		1 cr

LUOVA-406 How to publish a paper in a scientific journal

LUOVA-406 How to publish a paper in a scientific journal

LUOVA-406 How to publish a paper in a scientific journal

Abbreviation: How to publish

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	2 cr
Languages	English, Finnish
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Responsible teacher Mia Vehkaoja, Administrative person
Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Learning outcomes

EN: The course has four main aims:

1. To improve the participants' chances of publication (and decrease the probability that articles are rejected because they are poorly written)
2. To provide robust models and methods to improve the style and content of the participants' articles
3. To provide sensible (and realistic) advice on how to approach and work with journal editors, referees and collaborators
4. To provide numerous examples, models and recipes for writing the constituent parts of a scientific article, along with practical exercises to improve your paper writing skills

Additional information

EN:

Timing

The course unit can be completed at any time during doctoral studies.

The course unit is offered every second year in the spring term (2018, 2020, 2022 etc.)

Contents

This intensive course covers all aspects of publishing a paper from choosing a journal to maximizing citations after the paper is published as well as reviewing papers:

- The ‘publication game’
- Before you start writing; framing and planning
- Improving your English
- Improving your scientific writing

- The standard scientific research article
- Titles to Methods
- Results to Acknowledgements
- Other types of article/post-submission
- Review and discussion papers
- Submission and beyond

Assessment practices and criteria

Grading: pass/fail
80 % attendance is required

Completion

- Introductory lectures, demonstrations and practical exercises.
- Teaching will be through a combination of presentations, demonstrations and practical exercises.
- Teaching will be broadly structured into two sessions per day.
- Depending on demand, the final day will be devoted to individual or small group mentoring to discuss scientific articles that are currently being prepared.

Other information

Instruction language: English.

Responsible person

Course teacher

Expiry of studies

Link to study guide

Completion method and assessment items	Recurrence	Credits
Method 1		2 cr
Participation in teaching		2 cr

LUOVA-407 Making science matter - increasing the impact of ecological findings

LUOVA-407 Making science matter - increasing the impact of ecological findings
LUOVA-407 Making science matter - increasing the impact of ecological findings

Abbreviation: Making science

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	3 cr
Languages	English, Finnish
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Responsible teacher Mia Vehkaoja, Administrative person

Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Prerequisites

EN: This course is aimed at doctoral researchers in ecology, environmental biology and conservation genetics. To make real use of it, we expect that participants are already working on a well-defined topic with potential application to real conservation issues. While this applied dimension can be either theoretical or already realised, part of the course will be aimed at formulating practical recommendations from one's own results.

Learning outcomes

EN: This course aims to improve the communication skills of PhD students in biology in order to increase information transfer and dialogue between academia, decision makers, and society at large. By the end of the course participants will be able to:

- identify the importance of communicating with different stakeholders, and reflect on the extent to which communication is part of their professional vocation,
- discover extant channels for disseminating results,
- recognize differences in the background skills and information needs of different audiences, and
- extract the essence of research results (own or borrowed) from a contextual perspective.

Additional information

EN:

Timing

The course unit can be completed at any time during doctoral studies.

The course unit is offered every second year in the spring term (2019, 2021 etc.)

Contents

On the course, doctoral researchers will practice communicating their research findings to different target audiences and the media, learn how the general public can be engaged in research projects, and hear how science is taught in schools and even kindergartens. Each day of the course has a specific theme and will start with keynote lectures and continue with workshops, exercises and group work.

Assessment practices and criteria

Grading: pass/fail
100 % attendance is required

Completion

- Before the course, each student is encouraged to reflect on what he/she is actually doing, who should be hearing about it and how different target groups might be told about it.
- Details of the preparatory exercises are given before the course.
- The programme of the actual course will be based on traditional lectures blended with interactive workshops.
- The course is organised at the research station or a similar out-of-Helsinki location.
- Keynote lectures, workshops, exercises and group work.

Other information

Instruction language: English.

Responsible person

Course teacher

Expiry of studies

Link to study guide

Completion method and assessment items	Recurrence	Credits
Method 1		3 cr
Participation in teaching		3 cr

LUOVA-410 Other relevant communication skills studies

LUOVA-410 Other relevant communication skills studies

LUOVA-410 Other relevant communication skills studies

Abbreviation: Other relevant comm

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	1-4 cr
Languages	English, Finnish
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Responsible teacher Mia Vehkaoja, Administrative person
Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Learning outcomes

EN: After completing other relevant studies in communication skills and career planning, the doctoral candidate will be more aware of what is required for employment after the PhD.

Additional information

EN:

Timing

To be completed at any time during doctoral studies

Completion methods

As agreed with the supervisor or person in charge of studies

Contents

As agreed with the supervisor or person in charge of studies

Assessment practices and criteria

Pass/Fail

Responsible person

Supervisor/coordinating academic

Expiry of studies

Link to study guide

Completion method and assessment items	Recurrence	Credits
Method 1		1-4 cr
Participation in teaching		1-4 cr

LUOVA-411 Talk at LUOVA research seminar

LUOVA-411 Talk at LUOVA research seminar

LUOVA-411 Talk at LUOVA research seminar

Abbreviation: Talk LUOVA resear

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	1 cr
Languages	English
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Administrative person Mia Vehkaoja, Responsible teacher
Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Additional information

EN:

Timing

The course unit can be completed at any time during doctoral studies.

Assessment practices and criteria

Pass/Fail

Completion

Preparing a talk for LUOVA research seminar

Other information

Instruction language: English.

Responsible person

LUOVA office

Expiry of studies

Link to study guide

Completion method and assessment items	Recurrence	Credits
Method 1		1 cr
Participation in teaching		1 cr

LUOVA-413 LUOVA research seminar

LUOVA-413 LUOVA research seminar

LUOVA-413 LUOVA research seminar

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	1-2 cr
Languages	English
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Administrative person Mia Vehkaoja, Responsible teacher
Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Learning outcomes

EN: After taking part in LUOVA research seminar series, doctoral researchers will

1. be more familiar with the profile and research areas of the scientific community
2. have developed interaction, communication and digital skills
3. have created a wider network of researchers and contacts

Additional information

EN: Target group
For LUOVA students.

Timing

To be completed at any time during doctoral studies. The course will be offered monthly.

Contents

LUOVA research seminar series consist of two talks per session by doctoral candidates or post-doctoral researchers.

Assessment practices and criteria

Pass/Fail

10 attendances = 1 credit
1 oral presentation = 1 credit

Completion

Full attendance and participation is required.

Other information

Teaching in English.

Responsible person

Doctoral education Planning officer / LUOVA office

Expiry of studies

Link to study guide

Completion method and assessment items	Recurrence	Credits
Method 1		1-2 cr
Participation in teaching		1-2 cr

LUOVA-415 Public outreach activities

LUOVA-415 Public outreach activities
LUOVA-415 Public outreach activities

Abbreviation: Public outreach

Curriculum periods	2022-23, 2023-24, 2024-25, 2025-26
Validity period	since 1 Jan 2023
Credits	1-3 cr
Languages	English
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Administrative person Mia Vehkaoja, Responsible teacher
Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Additional information

EN:

Target group

The course unit is optional and it belongs to the module of Discipline-specific studies.

Timing

To be completed at any time during doctoral studies, according to the schedule of the doctoral researcher's own research.

Completion methods

Carried out in collaboration with the other authors, as independent work. To be agreed with the supervisor.

Contents

Different public outreach activities: Twitter, blogs, Wikipedia articles, video blogging, pitching etc.

Activities and teaching methods in support of learning

Student prepares a plan for his/her public outreach activities, executes the plan and writes a short report on activities and experiences. In addition, student can ask for critical feedback.

Assessment practices and criteria

Grading: Pass/Fail.

Responsible person

Doctoral programme planning officer / LUOVA office

Credit registration

Complete the credit registration form and send it together with the plan and report to the LUOVA office.

Expiry of studies

Link to study guide

Completion method and assessment items	Recurrence	Credits
Method 1		1-3 cr
Independent study		1-3 cr
Method 2		1-3 cr
Participation in teaching		1-3 cr

LUOVA-403 Organising the annual LUOVA Spring Symposium

LUOVA-403 Organising the annual LUOVA Spring Symposium
LUOVA-403 Organising the annual LUOVA Spring Symposium

Abbreviation: Organising the

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	2 cr
Languages	English, Finnish
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Responsible teacher Mia Vehkaoja, Administrative person
Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Learning outcomes

EN: After completing the course unit the doctoral researcher has learned such organisational skills as:

- inviting and hosting guests,
- scheduling an event,
- coordinating his/her work with other organisers' input,
- advertising an event,
- preparing event material (eg. instructions, abstract book),
- receiving registrations, and/or
- communication, planning and multitasking.

Content

EN: No registration in Sisu

Additional information

EN:

Timing

The course unit can be completed at any time during doctoral studies.

The course unit is offered each spring term in the third period.

Assessment practices and criteria

Pass/Fail

Completion

Organising the annual LUOVA Spring symposium as part of a team.

Responsible person

LUOVA director

Expiry of studies

Link to study guide

Completion method and assessment items	Recurrence	Credits
Method 1		2 cr
Independent study		2 cr

LUOVA-409 Organising LUOVA’s field trip to potential employers

LUOVA-409 Organising LUOVA’s field trip to potential employers
LUOVA-409 Organising LUOVA’s field trip to potential employers

Abbreviation: Organising LUOV

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	1-2 cr
Languages	English, Finnish
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Responsible teacher Mia Vehkaoja, Administrative person
Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Additional information

EN:

Timing

The course unit can be completed at any time during doctoral studies.

Assessment practices and criteria

Pass/Fail

Completion

Organising the LUOVA's field trip to potential employers as part of a team.

Responsible person

LUOVA planning officer

Expiry of studies

Link to study guide

Completion method and assessment items	Recurrence	Credits
Method 1		1 cr
Participation in teaching (min)		1 cr
Method 2		2 cr
Participation in teaching (max)		2 cr
Method 3		1 cr
Exam (min)		1 cr
Method 4		2 cr
Exam (max)		2 cr
Method 5		1 cr
Independent study (min)		1 cr
Method 6		2 cr
Independent study (max)		2 cr

LUOVA-408 Organising LUOVA's career seminar

LUOVA-408 Organising LUOVA's career seminar

LUOVA-408 Organising LUOVA's career seminar

Abbreviation: Organising LUOV

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	2 cr
Languages	English, Finnish
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Responsible teacher Mia Vehkaoja, Administrative person
Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Learning outcomes

EN: After completing the course, the doctoral researcher will have met several LUOVA alumni and learnt something about their work and what kind of skills are necessary for their jobs.

Additional information

EN:

Timing

To be completed at any time during doctoral studies

Completion methods

Organising the event

Contents

According to the alumni invited

Assessment practices and criteria

Pass/Fail

Responsible person

Course teacher

Expiry of studies

Link to study guide

Completion method and assessment items	Recurrence	Credits
Method 1		2 cr
Participation in teaching		2 cr

LUOVA-412 Organising LUOVA research seminar

LUOVA-412 Organising LUOVA research seminar

LUOVA-412 Organising LUOVA research seminar

Abbreviation: Organising LUOVA res

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	1-2 cr
Languages	English
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Administrative person Mia Vehkaoja, Responsible teacher
Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Learning outcomes

EN: After completing the course unit the doctoral researcher has learned such organisational skills as:

- inviting and hosting guests,
- scheduling an event,
- coordinating his/her work with other organisers' input,
- advertising an event,
- preparing event material (eg. instructions, schedule),
- receiving registrations, and/or
- communication, planning and multitasking.

Additional information

EN:

Timing

The course unit can be completed at any time during doctoral studies.

The course unit is offered throughout the year.

Assessment practices and criteria

Pass/Fail

Completion

Organising the LUOVA research seminar as part of a team.

Responsible person

LUOVA planning officer

Expiry of studies

Link to study guide

Completion method and assessment items	Recurrence	Credits
Method 1		1-2 cr
Participation in teaching		1-2 cr

LUOVA-416 Internship in LUOVA's field of science

LUOVA-416 Internship in LUOVA's field of science

LUOVA-416 Internship in LUOVA's field of science

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	1-3 cr
Languages	English
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Administrative person Mia Vehkaoja, Responsible teacher
Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Additional information

EN:

Timing

To be completed at any time during doctoral studies

According to the schedule of the doctoral researcher's own research

Completion methods

Internship must be for a minimum of one week

Contents

Internships will vary in length and content dependent on the subject area

Activities and teaching methods in support of learning

Preparation and reporting

Assessment practices and criteria

Feedback from the leader of the company/research group where the internship was carried out

Pass/Fail

Responsible person

LUOVA's planning officer / Supervisor / coordinating academic

Credit registration

Complete the credit registration form and send it together with details of the internship and your report to the LUOVA office.

Expiry of studies

Link to study guide

Completion method and assessment items	Recurrence	Credits
Method 1		1-3 cr
Independent study		1-3 cr

LUOVA-417 LUOVA career course 1

LUOVA-417 LUOVA career course 1

LUOVA-417 LUOVA career course 1

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	1-3 cr
Languages	English
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Administrative person Mia Vehkaoja, Responsible teacher
Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Learning outcomes

EN: Participants will gain knowledge and skills in:

- career planning and self-knowledge
- career options
- how to write convincing job application documents
- preparing for a successful job interview

- PhD in the job market

Additional information

EN: Target group
LUOVA doctoral researchers

Completion

Lectures, discussion, independent work and seminars.

Content

The course will bring together doctoral candidates who are aiming to build a career outside of academia. The course will provide perspectives on doctoral candidate's career opportunities. It will focus on PhD candidate's competences and strengths in the labour market. The course supports individuals' career planning outside the academia and gives a good overview of a goal-oriented job-search process.

The course focuses on the key questions that are important when applying for a job outside of the academia. How does one write an effective job application documents? How does one prepare for a successful interview? The participants will expand the perspective of potential employers by doing an informational interview of an interesting organization or employer.

Grading

Pass/fail, active participation in all sessions and completion of the course assignments.

Responsible person

LUOVA office

Expiry of studies

Link to study guide

Completion method and assessment items	Recurrence	Credits
Method 1		1-3 cr
Participation in teaching		1-3 cr

LUOVA-418 LUOVA career course 2

LUOVA-418 LUOVA career course 2
LUOVA-418 LUOVA career course 2

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	1-3 cr
Languages	English
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Administrative person Mia Vehkaoja, Responsible teacher
Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Learning outcomes

EN: Participants will gain knowledge and skills in:

- career planning and self-knowledge
- career options
- how to write convincing job application documents
- preparing for a successful job interview
- PhD in the job market

Additional information

EN: Target group
LUOVA doctoral researchers

Completion

Lectures, discussion, independent work and seminars.

Content

The course will bring together doctoral candidates who are aiming to build a career outside of academia. The course will provide perspectives on doctoral candidate's career opportunities. It will focus on PhD candidate's competences and strengths in the labour market. The course supports individuals' career planning outside the academia and gives a good overview of a goal-oriented job-search process.

The course focuses on the key questions that are important when applying for a job outside of the academia. How does one write an effective job application documents? How does one prepare for a successful interview? The participants will expand the perspective of potential employers by doing an informational interview of an interesting organization or employer.

Grading

Pass/fail, active participation in all sessions and completion of the course assignments.

Responsible person

LUOVA office

Expiry of studies

Link to study guide

Completion method and assessment items	Recurrence	Credits
Method 1		1-3 cr
Participation in teaching		1-3 cr

LUOVA-419 Other relevant career planning studies

LUOVA-419 Other relevant career planning studies

LUOVA-419 Other relevant career planning studies

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	1-4 cr
Languages	English
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Administrative person Mia Vehkaoja, Responsible teacher
Study level	Postgraduate studies

Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Additional information

EN:

Timing

To be completed at any time during doctoral studies

Completion methods

As agreed with the supervisor or person in charge of studies

Contents

As agreed with the supervisor or person in charge of studies

Assessment practices and criteria

Pass/Fail

Responsible person

Supervisor/coordinating academic

Expiry of studies

Link to study guide

Completion method and assessment items	Recurrence	Credits
Method 1		1-4 cr
Participation in teaching		1-4 cr

LUOVA-006 Publication outside the thesis

LUOVA-006 Publication outside the thesis

LUOVA-006 Publication outside the thesis

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	1-4 cr
Languages	English
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Administrative person Mia Vehkaoja, Responsible teacher
Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Additional information

EN:

Timing

To be completed at any time during doctoral studies

According to the schedule of the doctoral researcher's own research

Completion methods

Publication in a peer-reviewed journal

Contents

Publication of an article which will not be included in the thesis

Activities and teaching methods in support of learning

Academic writing, time management

Assessment practices and criteria

Pass/Fail, 2 credits per publication

Responsible person

Supervisor/coordinating academic

Credit registration

Complete the credit registration form and send it together with the publication to the LUOVA office.

Expiry of studies

Link to study guide

Completion method and assessment items	Recurrence	Credits
Method 1		1-4 cr
Independent study		1-4 cr

LUOVA-007 Research visit

LUOVA-007 Research visit

LUOVA-007 Research visit

Curriculum periods	2023-24, 2024-25, 2025-26
Validity period	since 1 Aug 2023
Credits	1-3 cr
Languages	English
Grading scale	Pass-Fail
University	University of Helsinki
Responsible organisation	Doctoral Programme in Wildlife Biology 100%
Responsible persons	Mia Vehkaoja, Administrative person Mia Vehkaoja, Responsible teacher
Study level	Postgraduate studies
Study field	Fields of education (Ministry of Education and Culture), Natural sciences

Additional information

EN:

Timing

To be completed at any time during doctoral studies

According to the schedule of the doctoral researcher's own research

Completion methods

Research visits must be for a minimum of one week

Contents

Research visits will vary in length and content dependent on the subject area

Activities and teaching methods in support of learning

Preparation and reporting

Assessment practices and criteria

Feedback from the leader of the research group where the research visit was carried out

Pass/Fail

Responsible person

LUOVA planning officer / Supervisor / coordinating academic

Credit registration

Complete the credit registration form and send it together with details of the research visit and your report to the LUOVA office.

Expiry of studies

Link to study guide

Completion method and assessment items	Recurrence	Credits
Method 1		1-3 cr
Independent study		1-3 cr