



UNIVERSITY OF
EASTERN FINLAND

2020-2021

UEF//
SMART
START

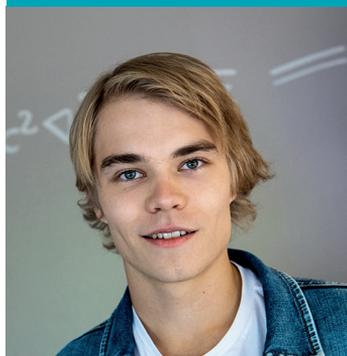
BEC AND ENHET

Checklist for new students

Apply for
a residence permit
migri.fi



Get to know
the new student
orientation material
kamu.uef.fi/new-student



Check course
information on
webodi.uef.fi

Find online guides in
kamu.uef.fi

Register as a student
at UEF in
studyinfo.fi

Apply for housing
joensuunelli.fi
in Joensuu, and
kuopas.fi
in Kuopio



Other important websites

- ▶ Student Union (ISYY) **isyy.fi**
- ▶ Library **uef.fi/kirjasto**
- ▶ IT Services **uef.fi/tipa**
- ▶ Campus restaurants **uef.fi/en/campus-restaurants**
- ▶ Finnish Student Health Services (YTHS) **yths.fi**
- ▶ Language Centre (access with UEF account)
uef.fi/kielikeskus/opintoyhteiso

Schedule of the first week

PRELIMINARY PROGRAMME, TO BE UPDATED

MONDAY 31 AUGUST

| TIME | PLACE | PROGRAM |
|-------------|----------------------|---------|
| KUOPIO | | |
| 10.00-12:00 | Mediteknia, MD100 | |
| 15:00-16:45 | Mediteknia, MD100 | |
| | | |
| JOENSUU | | |
| 9:00-16:00 | Carelia building, C1 | |
| | | |
| | | |
| | | |

TUESDAY 1 SEPTEMBER

| TIME | PLACE | PROGRAM |
|-------------|----------------------|---|
| KUOPIO | | |
| 9:00-12:00 | Mediteknia, MD100 | |
| 12:00-15:00 | Snellmania | Information Market and visit to library |
| | | |
| JOENSUU | | |
| 9:00-12:00 | Carelia building, C1 | |
| 12:00-15:00 | Metria, lobby | Information Market |
| | | |

WEDNESDAY 2 SEPTEMBER

| AIKA | PAIKKA | OHJELMA |
|-------------|------------------------------------|--------------|
| KUOPIO | | |
| 8:30-11:00 | Mediteknia, MD100 | |
| 11:00-15:00 | Canthia CA103 and Mediteknia MD101 | IT workshops |
| | | |
| JOENSUU | | |
| 9:00-11:00 | Carelia building, C1 | |
| | | |

THURSDAY 3 SEPTEMBER

| AIKA | PAIKKA | OHJELMA |
|-------|--------------|---------------|
| 12.00 | Carelia-sali | Ohjelman nimi |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

FRIDAY 4 SEPTEMBER

| AIKA | PAIKKA | OHJELMA |
|------------|----------------------|---------------|
| KUOPIO | | |
| 12.00 | Carelia-sali | Ohjelman nimi |
| | | |
| JOENSUU | | |
| 9:00-11:00 | Carelia building, C1 | |
| | | |
| | | |

How to study at the UEF?

PERSONAL STUDY PLAN

All new students make a personal study plan in the beginning of their studies. It is a tool for planning your studies and setting up your goals. With the help of your plan, you get closer to your goals and the choices related to your studies become visible. You can clarify your decisions by planning your studies and you will be able to avoid overlapping courses. Your personal study plan will shape up as your studies proceed. In addition to the schedule of the studies, you can examine also your goals and learning in your plan. The syllabus and the degree structure of your major are the basis for your plan. Your personal study plan is updated in WebOodi as your studies proceed and it becomes a useful tool for planning your studies and for controlling your study time. The key in planning your studies is that your choices, like the possible minor, practical training or possible studies abroad, are related to your own goals in the Master's degree. Also a realistic scheduling is an important aspect to keep in mind.

REGISTERING FOR COURSES AND EXAMINATIONS

You must register for the courses at least a week before the teaching begins. The registration is done in WebOodi. Students plan their own timetables themselves. The course descriptions, timetables and possible changes to timetables and rooms are updated in WebOodi. Therefore, following WebOodi is highly recommended! Students must register for all examinations at least ten days before the exam in WebOodi (<https://weboodi.uef.fi/>). This registration is compulsory.

INFORMING THE STUDENTS

Registering for the courses in WebOodi is vital as the teachers send info about course material and other things related to completing the course through WebOodi. Students must take care that they have a valid email address saved to their contact information in WebOodi as the communication between the student and the teacher happens by email. Please remember also to join and follow the group "Environmental Science MSc students (for students in Kuopio) or Biology learning community (for students in Joensuu) in Yammer. The students' digital handbook is called UEF//Kamu.

PRACTICAL TRAINING

You can include practical training (max. 10 Cp, ECTS) in your studies. Your job description during your practical training must correspond tasks to which the Master's degree gives the competence for. Practical trainings of Master's degree students typically include tasks such as laboratory or field work, and writing of reports.

RECOGNITION OR PRIOR LEARNING (RPL)

Recognition of prior learning (RPL) refers to a set of practices and procedures that can be used to assess the prior learning of the student and to approve that learning as part of the student's studies. Prior learning may be a result of the student's earlier studies or it can have been acquired in some other manner. The recognition of prior learning is based on the correspondence between the applicant's competencies and the content and level of the pursued degree and its components, as defined in the learning outcomes. Application for RPL can be found at KAMU / Student handbook / Guides and instructions / Recognition of prior learning (RPL).

MINORS

Minors are not compulsory in the degree structures of our Master´s degree programmes. However, you can include a minor in your degree. Your choice of the minor can be based on your own interests, recommendations of the department or your future career prospects. It is essential that your degree becomes an interesting and meaningful whole that supports your transfer to the work life. The possible minor is included in the elective studies section of your degree. The extent of a minor is at least 20 credit points (Cp, ECTS).



During winter you will see wonderful snow and it is not as dark as you might think. On the other hand, Finland in summer is the most beautiful explosion of nature you have ever seen.

Welcome to the Department of Environmental and Biological Sciences!

You are warmly welcome to study at the UEF, Department of Environmental and Biological Sciences! As you may have noticed, we operate in two campuses, and educate our students in two main subjects: Environmental science in Kuopio and Biology in Joensuu. You were granted a study place either in the city of Kuopio or city of Joensuu. So welcome to Eastern Finland!

An active interaction between you and your teachers will play a key role in your studies along with modern teaching technology, assuring you the possibility to exploit the best expertise on both our campuses, Kuopio and Joensuu. We encourage you to make the most of the diverse range of study offering at our university. Your degree structure allows you to build individual knowhow to support your major, and to prepare you for the future. Whenever you may have questions, concerns, suggestions, please contact any of our teacher or me. We are here for you!

Timo Kumlin, Coordinator

Stay tuned!

DEPARTMENT OF ENVIRONMENTAL AND BIOLOGICAL SCIENCES

<http://www.uef.fi/envbio>

<https://www.facebook.com/UEFEnvBio>

Student associations Hyeena and Mikrovillus

Hyeena ry is a student organization which consists of Applied Physics and Environmental Science students of the at Kuopio campus.

Student organization takes care of the student's well-being. For example, Hyeena organizes events like parties and hang-out evenings and it is the voice of students. With a little help of Hyeena, you can get to know your fellow students better. One of the most important meanings of the student association is to bring students together!

Members of the Hyeena can be recognised by their red overalls. Hyeenas appreciate their members and You just the way you are.

Check more about Hyeena by going to our website www.hyeena.net, on Instagram our alias is hyeenary and we are on Facebook, search for the site named Hyeena! Unfortunately, most of the text is in Finnish but we are trying to improve our English, so you Master's students don't feel left out!

You are warmly welcome to all our events!

Mikrovillus ry is the biology student's association at Joensuu campus and has been the link between organizations and students since 1973! We welcome our international students to join us, if you have any questions about student life don't hesitate to ask us on campus or via e-mail/social media! On our web site (www.mikrovillus.fi/in-english) you can find the latest news from us, upcoming happenings and other useful information (e.g. former exam questions at tenttiarkisto).

We highly encourage you to visit Koppi in Natura building for the cheap cup of coffee or tea, and good the best company! At student happenings you can recognize us by our orange-yellow overalls. You can contact our student council at this email address: mikrovillus.ry@gmail.com

<https://www.facebook.com/groups/21368405760/>

See you soon!

Academic calendar at UEF

The academic year is based on a two-semester system. The official academic year starts on 1 August and ends on 31 July. However, in the autumn semester lectures are scheduled mainly between September and mid-December, and in the spring semester between early January and May. The Christmas break is about three weeks and during the spring semester, there is a week-long Easter break. There is generally no teaching during the summer and on public holidays.

Check the up-to-date information on <https://kamu.uef.fi/en/student-book/academic-calendar/>.

| DATE | EVENT/HOLIDAY |
|-----------------------------------|---|
| 2-4 September 2020 | Orientation for new Master's Degree students in Kuopio and in Joensuu |
| 15 September 2020 | Registration for new students ends |
| 3 September 2020 (in Kuopio) | Opening ceremony of the academic year |
| 7 October 2020 | Sports afternoon |
| 16 December 2020 – 6 January 2021 | Christmas break |
| 16 February 2021 | Sports afternoon |
| 13 April 2021 | Climate afternoon |



Studying is relaxed but ambitious

Christina Hess, Germany

Guidance and help

Programme coordinator:

Timo Kumlin, PhD

email: timo.kumlin@uef.fi

office: Snellmania 4027 (4th floor), Kuopio campus

mobile: +358 50 578 0381

Programme leader (Kuopio):

Jonne Naarala, PhD

email: jonne.naarala@uef.fi

office: Snellmania 4311 (4th floor)

mobile: +358 50 355 3581

Programme leader (Joensuu):

Sari Kontunen-Soppela, PhD

email: sari.kontunen-soppela@uef.fi

office: Natura 360 (3rd floor)

mobile: +358 50 442 2674

Degree structure (BEC programme)

STUDIES

The curriculum of the BEC programme consists of 120 credit points (Cp, ECTS), which includes general skills studies, advanced level courses in biology or environmental science plus master's thesis (40 Cp), as well as alternative studies of biology, environmental science, environmental law and policy, statistics, or sustainable development.

The programme consists of lectures, exercises, book exams and hands-on training in research groups. Students will achieve comprehensive knowledge in at least one specialized area of research (e.g. aquatic research, biogeochemistry, environmental ecology, or plant biology), generic core competencies for scientific research, and skills to apply field-specific methods in the laboratory.

The Master's thesis includes an experimental element. The aim is to improve the student's skills in data collection, data analysis and to evaluate the student's ability to report and discuss the observed results scientifically in relation to existing data and knowledge.

CURRICULUM 2020-2022

| MSC STUDIES IN BEC PROGRAMME | 120 Cp, ECTS |
|--|--------------|
| Advanced studies in Environmental science or Biology | min. 80 Cp |
| Methodological studies | min. 8 Cp |
| Minor or other studies | min. 25 Cp |
| Language and communication studies | 2 Cp |

GENERAL SKILLS STUDIES FOR THE INTERNATIONAL STUDENTS (OTHER STUDIES)

| CODE | NAME OF THE COURSE | CP | TIMING |
|---------|---|----|--------------|
| 1131003 | Orientation for international students | 1 | Every autumn |
| 8031003 | University study skills | 1 | Every autumn |
| 8031006 | University computing skills | 2 | Every autumn |
| 8020280 | Information skills and Sources in Science for Int. Students | 1 | Every autumn |
| 8014301 | Finnish 1 | 4 | Every autumn |
| 3622111 | Basic statistics in English | 5 | Every autumn |
| 3710236 | Applied water chemistry *) | 2 | Every autumn |
| 3710707 | General microbiological methods *) | 2 | Every autumn |

*) for Kuopio students

METHODOLOGICAL STUDIES (8 CP), COMPULSORY (ONLY IN KUOPIO)

| CODE | NAME OF THE COURSE | CP | TIMING |
|---------|--|----|--------------|
| 3710418 | Design of Ecological and Environmental Experiments | 4 | every spring |
| 3710028 | Personal Study Plan to MSc Degree | 1 | first autumn |
| 3123101 | Philosophy and History of Biology | 3 | every autumn |

ADVANCED STUDIES IN BIOLOGY OF ENVIRONMENTAL CHANGE (MIN. 80 CP)

Compulsory advanced level studies

| CODE | NAME OF THE COURSE | CP |
|-----------------------------------|---|------|
| 3710001 | MSc Thesis | 40 |
| 3710004 | Maturity test in MSc | 0 |
| 3710036 | MSc Thesis Seminar in Environmental Science and Biology | 3 |
| Only for Joensuu students: | | |
| | Advanced book exams *) | 6-10 |
| 3710418 | Design of Ecological and Environmental Experiments **) | 4 |
| 3121002 | Personal Study Plan to MSc Degree (PSP MSc) **) | 1 |
| 3123101 | Philosophy and History of Biology **) | 3 |

*) for biology students in Joensuu

***) Methodological studies for environmental science students in Kuopio

Environmental ecology

| CODE | COURSE | CP | TIMING |
|----------|---|-----|--------------|
| 3123172 | Advanced Taxonomic Collection | 2-6 | continuously |
| 3710486 | Chemical Ecology | 5 | autumn 2021 |
| 3123190 | Community Ecology | 4 | autumn 2020 |
| 3123244 | Contemporary Evolution and Behavioural Ecology *) | 3 | autumn 2021 |
| 3123175 | Current Issues in Aquatic Ecotoxicology | 2 | autumn 2021 |
| 3710462 | Ecological Risk Assessment | 5 | every spring |
| 3123158 | Ecology of Tropical Africa | 3 | spring 2021 |
| 3710485 | Entomology | 4 | autumn 2020 |
| 3123243 | Exercises in Fish and Fisheries Biology *) | 4 | spring 2021 |
| 3123242 | Fish and Fisheries Biology *) | 4 | spring 2021 |
| 23123194 | Global Peatland Ecology | 3 | autumn 2021 |
| 3123169 | Literature Report in Hydrobiology | 3 | continuously |

*in Joensuu

Biogeochemistry

| CODE | COURSE | CP | TIMING |
|----------|---|-----|--------------|
| 3710419 | Biogeochemistry | 6 | spring 2021 |
| 3710451 | Bioprocesses in Removal of Environ. Pollutants | 3 | autumn 2021 |
| 3710469 | Journal Club in Biosphere-Atmosphere Interactions | 2-4 | continuously |
| 3710473 | Methods in Soil Ecology | 5 | autumn 2020 |
| 3710474 | Soil Ecology | 6 | spring 2022 |
| 3710455 | Stable Isotopes in Environmental Research | 5 | autumn 2021 |
| 3710468 | Methods in Microbial Biogeochemistry | 5 | spring 2021 |
| 3513125A | Carbon Dynamics in Forest Soils | 3 | autumn 2021 |
| 3513125B | Carbon Dynamics of Forest Soils, Book Examination | 2-4 | |

Genetics and physiology

| CODE | COURSE | CP | TIMING |
|---------|--|----|-------------|
| 3123185 | Ecological Genetics | 3 | spring 2022 |
| 3123198 | Function of plants in changing environment | 8 | spring 2021 |
| 3123247 | Environmental adaptation of animals | 6 | autumn 2019 |
| 3123248 | Neurophysiology | 6 | autumn 2021 |
| 3123196 | Genetic Modification of Organisms | 5 | spring 2022 |
| 3123186 | Optical Methods in Plant Biology & Environ. Research | 5 | spring 2020 |
| 3123197 | Population Genetics and Evolution | 5 | spring 2021 |

Other advanced-level courses

| CODE | COURSE | CP | TIMING |
|---------|--------------------------------------|---------|--------------|
| 3710475 | Chemicals, Environment and Health | 5 | every spring |
| 3123195 | Sustainable Water Management | 5 | spring 2022 |
| 3123143 | Working in a Research Group | *) | continuously |
| 3123138 | Practical Training, advanced studies | max. 10 | continuously |

*) 3-10 Cp in Kuopio, 3-6 in Joensuu

LANGUAGE AND COMMUNICATION STUDIES (MIN. 2 CP)

| CODE | NAME OF THE COURSE | CP | TIMING |
|---------|--|----|-------------|
| 8015017 | Advanced English Academic and Professional Communication for the International Master's Degree Programmes of Science and Forestry (Kuopio) | 2 | spring 2021 |

I can – I am a Master!

WHY BIOLOGY OF ENVIRONMENTAL CHANGE?

The Master's Degree Programme in Biology of Environmental Change (BEC) is a research-oriented programme that aims to increase student's knowledge of biological and biogeochemical aspects of the state of the environment. The 2-year programme offers advanced knowledge in environmental science, biology, biogeochemistry, hydrobiology, ecotoxicology, environmental policy and law, and environmentally oriented forestry.

” *There are several world-class research groups operating in this department, so I'm very excited about the future opportunity to do a PhD at the UEF as well.*

Tawfiqur Rahman, Bangladesh

LEARNING OBJECTIVES

Studies in biology of environmental change will provide the student with advanced knowledge on the effects of environmental change on ecosystems and their bioprocesses, especially the interactions between atmosphere and ecosystems. The studies are divided into the following study modules:

Biochemistry module focuses on studying effects of climate change and land use change on the biogeochemical cycles and on dynamics of gases important in the atmosphere. The conducted research spans various scales from molecules to ecosystems to landscape.

Environmental ecology study module focuses on studying environmental eco-physiology, chemical and microbial ecology, and applied ecosystem ecology.

Genetics and physiology study module concentrates on the ecophysiological, cellular and molecular biological effects associated with environmental change as well as understanding of the interaction mechanisms at cellular level.

Advanced studies provide a good understanding for the research activities on biological impacts of environmental change at universities and research institutes and to act as a leading expert in environmental monitoring.

Degree structure (ENHET programme)

STUDIES

The curriculum of this programme (120 credit points, ECTS) consists of advanced studies of the main subject (environmental science), minor subject studies, and alternative studies. Practical training in research institutes or other relevant work places (max 10 Cp) can be included in the degree.

The programme consists of lectures, exercises, book exams and hands-on training in research groups. Students will achieve comprehensive knowledge in at least one specialized area of research (air pollutants, aerosols, radiation, water, informatics), generic core competencies for scientific research, and skills to apply field-specific methods in the laboratory.

The Master's thesis includes an experimental element. The aim is to improve the student's skills in data collection, data analysis and to evaluate the student's ability to report and discuss the observed results scientifically in relation to existing data and knowledge.

CURRICULUM 2020-2022

| MSC STUDIES IN ENHET PROGRAMME | 120 Cp, ECTS |
|---|--------------|
| Advanced studies in Environmental science | min. 80 Cp |
| Methodological studies | min. 8 Cp |
| Minor or other studies | min. 25 Cp |
| Language and communication studies | 2 Cp |

GENERAL SKILLS STUDIES FOR THE INTERNATIONAL STUDENTS (OTHER STUDIES)

| CODE | NAME OF THE COURSE | CP | TIMING |
|---------|---|----|--------------|
| 1131003 | Orientation for international students | 1 | Every autumn |
| 8031003 | University study skills | 1 | Every autumn |
| 8031006 | University computing skills | 2 | Every autumn |
| 8020280 | Information skills and Sources in Science for Int. Students | 1 | Every autumn |
| 8014301 | Finnish 1 | 4 | Every autumn |
| 3622111 | Basic statistics in English | 5 | Every autumn |
| 3710453 | Environmental Health for International Students | 5 | Every autumn |
| 3710236 | Applied water chemistry | 2 | Every autumn |
| 3710707 | General microbiological methods | 2 | Every autumn |
| 3710463 | Home Exam on Basics of Non-ionizing Radiation | 4 | Every autumn |

METHODOLOGICAL STUDIES (8 CP), COMPULSORY

| CODE | NAME OF THE COURSE | CP | TIMING |
|---------|--|----|--------------|
| 3710418 | Design of Ecological and Environmental Experiments | 4 | Every spring |
| 3710028 | Personal Study Plan to MSc Degree | 1 | First autumn |
| 3123101 | Philosophy and History of Biology | 3 | Every autumn |

ADVANCED LEVEL STUDIES IN ENVIRONMENTAL SCIENCE (MIN. 80 CP)

Compulsory advanced level studies (43 Cp)

| CODE | NAME OF THE COURSE | CP |
|---------|---|----|
| 3710001 | MSc Thesis | 40 |
| 3710004 | Maturity test in MSc | 0 |
| 3710036 | MSc Thesis Seminar in Environmental Science and Biology | 3 |

General courses on Environmental Health and Technology

| CODE | NAME OF THE COURSE | CP | TIMING |
|---------|--------------------------------------|------|--------------|
| 3710465 | Environmental Risk Assessment | 5 | every autumn |
| 3710435 | Exposure Assessment | 3 | every autumn |
| 3710477 | Exposure Measurements and Modelling | 6 | spring 2022 |
| 3710475 | Chemicals, Environment and Health | 5 | every spring |
| 3710402 | Advanced Occupational Hygiene | 3 | autumn 2020 |
| 3710478 | Green Chemistry | 4 | autumn 2020 |
| 4455703 | Environmental Epidemiology | 3 | spring 2021 |
| 3710713 | Practical Training, advanced studies | 3-10 | continuously |
| 3710712 | Project Work in a Research Group | 3-10 | continuously |
| 3710302 | Specific Book Exams | 3-10 | continuously |

Aerosols and air pollutants

| CODE | NAME OF THE COURSE | CP | TIMING |
|---------|--|----|-------------|
| 3710481 | Health Effects of Air Pollutants and Nanomaterials | 6 | autumn 2021 |
| 3710472 | Air Pollution Practicals | 5 | spring 2021 |
| 3352703 | Climate Change | 5 | autumn 2020 |
| 3352707 | Aerosol Physics I | 5 | spring 2021 |
| 3352708 | Aerosol physics II | 5 | spring 2021 |
| 3352710 | Atmospheric Physics and Meteorology | 5 | autumn 2021 |
| 3352709 | Atmospheric Chemistry | 5 | spring 2021 |
| 3710482 | Combustion, Emissions, and Control Technologies | 5 | spring 2022 |

Radiation

| CODE | NAME OF THE COURSE | CP | TIMING |
|---------|--|----|--------------|
| 3710404 | Radiation Biology | 5 | spring 2021 |
| 3710470 | Radiation Biology Practicals | 5 | autumn 2020 |
| 3710410 | Dosimetry of Ionising Radiation | 3 | spring 2021 |
| 3710446 | Radioecology and toxicology | 5 | autumn 2021 |
| 3710483 | Measurements and Dosimetry of Non-ionising Radiation | 6 | autumn 2020 |
| 3710464 | Radiation Biology Journal Club | 2 | continuously |

Sustainable Water Quality and Technology

| CODE | NAME OF THE COURSE | CP | TIMING |
|---------|--|----|--------------|
| 3710460 | Advanced Water Hygiene | 5 | spring 2022 |
| 3710401 | Health-related Environmental Microbiology | 4 | autumn 2020 |
| 3710223 | Water Chemistry and Treatment Practicals | 3 | every autumn |
| 3710479 | Water Pollution Prevention & Resource Recovery | 5 | autumn 2021 |
| 3123195 | Sustainable Water Management | 5 | spring 2022 |

Environmental Informatics

| CODE | NAME OF THE COURSE | CP | TIMING |
|---------|---|----|--------------|
| 3710458 | Environmental Data Mining | 5 | every autumn |
| 3710459 | Advanced Course on Environmental Data | 5 | spring 2021 |
| 3513028 | Advanced Geographical Information Systems | 5 | spring 2022 |

LANGUAGE AND COMMUNICATION STUDIES (MIN. 2 CP)

| CODE | NAME OF THE COURSE | CP | TIMING |
|---------|--|----|-------------|
| 8015017 | Advanced English Academic and Professional Communication for the International Master's Degree Programmes of Science and Forestry (Kuopio) | 2 | spring 2021 |

I can – I am a Master!

WHY ENVIRONMENTAL HEALTH AND TECHNOLOGY?

Master's Degree Programme in Environmental Health and Technology is a highly multidisciplinary and research oriented programme, aiming at combining comprehensive understanding of human exposure and health effects with technological solutions to reduce the effects. Focus is on environmental agents such as air pollutants, ionizing and non-ionizing radiation and chemicals as well as methods needed to produce meaningful risk assessment from such information.

LEARNING OBJECTIVES

General courses on this programme cover core courses on wide range of environmental health related topics including exposure assessment, environmental risk assessment, advanced occupational hygiene and green chemistry.

In addition to the general courses, we offer following modules for advanced knowledge:

Air Pollutants, Aerosols and Health module provides advanced knowledge in indoor and outdoor air pollutants, their sources, emission control technologies, health outcomes and risk assessment. This module is ideal if you wish to pursue a career in environmental administration, regulatory agencies, private sector or research.

Radiation module includes courses on biological effects and health risks of radiation, including both ionising and non-ionising radiation. All approaches of environmental health research are used, including in vitro studies, animal studies, epidemiology and exposure assessment. This kind of combination of courses and research provides a unique possibility to become a radiation biology specialist.

Water module specializes on water quality and technology topics including water hygiene and microbial risk assessment, conventional and most up-to-date purification technologies, prevention of water pollution and recovery of the valuable resources. The study environment includes a unique water laboratory, which offers excellent facilities for the simulation of even pilot-scale purification processes. This study package is suitable for students who wish to pursue a career in water monitoring, regulatory agencies and companies dealing with water treatment or research.

Environmental Informatics module is a new and growing area in the modern environmental sciences. It is based on applying information technology to environmental issues. The size and complexity of environmental related data lead to a need for an advanced computational approach, which helps to integrate information from various sources. With environmental informatics, new solutions to environmental problems can be found more effectively, and end users can be offered a higher level of information.

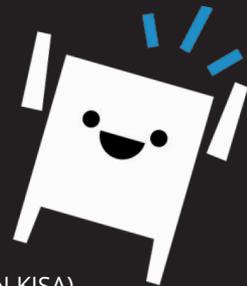
Welcome to Eastern Finland, the University of Eastern Finland and our Student Union!

At first, everything can feel new and confusing, but luckily you have joined a student community where you will surely find all the support you need. Students are a wonderful bunch and we at the Student Union of the University of Eastern Finland (ISYY) will provide you recreational activities, sports services and opportunities to make a difference. We also look out for your interests, so that you can focus on your studies. Your Student Organisation is the link to other students of your field, while the Student Union is the gateway to all the joys and benefits of student life.

ISYY may already be familiar to you. Once you have registered to the University, you can pay our membership fee, which also includes the Finnish Student Health Service (FSHS) fee for the autumn semester. We are a service and lobbying organisation for students, and that means You. From students to students, with love.

SOME OF OUR SERVICES AND BENEFITS AVAILABLE TO OUR MEMBERS ARE:

- ▶ Interest advocacy
- ▶ Recreational activities and events
- ▶ SYKETTÄ Sports Services
- ▶ Sports rental equipment and venue hire
- ▶ International Services
- ▶ Communications services (e.g. newsletters)
- ▶ Student card and free student calendar
- ▶ Customer service at our office
- ▶ Anti-Harassment Contact Persons
- ▶ ISYY Club memberships (including ESN Joensuu and ESN KISA)
- ▶ Support and services for Student Associations (e.g. grants and training)
- ▶ Opportunities to make a difference in the Student Union and the University



Visit our website to learn more about the Student Union, our operations, services, and all the fun and useful things ISYY membership offers you. Our expert staff is also ready to help you anytime in English! If you really get excited about our work, become involved with us!

We wish you the best in your studies this semester and a happy student life!

READ MORE: isyy.fi/en/services/for-new-students



fb|ISYY



@ISYYH



@isyyuef



Itä-Suomen yliopiston ylioppilaskunta

ISYY.FI

ESN for international students

WHO ARE WE?

ESN Joensuu and ESN KISA are part of ISYY dedicated to the international students. We are part of Erasmus Students Network (ESN) with more than 528 local sections in 42 countries. The most important task of the ESN sections is to introduce Finnish culture and lifestyle to international students and give Finnish students an opportunity to gain international experiences by arranging events and activities. We are active in promoting intercultural understanding and social inclusion.

HOW TO BECOME A MEMBER?

Every member of ISYY is an ESN member. You can participate in our events (most of them free of charge) and to our trips, if you are interested in gaining international experiences. Become a board or active member?

Becoming a board or active member gives you the opportunity to participate in the organization of events and decision making. The tasks of board members are the planning and management of events and trips, communication, finding partners and being part of the decision making in the Erasmus student network (ESN). Active members can participate in organizing events and trips. If you wish to participate, please join our meetings, they are open to everyone. Contact us for meeting schedule and location.

EVENTS WE ORGANISE

Kuopio: We organise get to know each other nights, movie nights, International food festivals, SitSits, Wine and cheese nights, Board game nights, Barbeques and picnics, Futsal tournaments, Ice hockey watching, Smoke Sauna and the list is open to your suggestions! We have at least one event per week so check out our facebook!

Joensuu: Would you like to go sledging, hike in Koli or participate in Sitsit? In that case, ESN Joensuu is the right club for you! We organise many events and activities during the academic year, such as, Get to Know Each Other Party, Surviving Winter in Finland, International Dinner and the famous Vappu celebration! We also organise trips to Lapland, Lofoten, St. Petersburg, and Stockholm together with Timetravels! You can buy our ESN cards, overalls and badges at the Student Union office. Come join us!

GET INVOLVED!

ESN Joensuu esnjoensuu@esnfinland.eu | esnjoensuu.fi |   @esnjoensuu

ESN Kisa (Kuopio) esnkisa@gmail.com | esnkisa.eu/contact |   @esnkisa



INTERNATIONAL EXCHANGE
ERASMUS STUDENT NETWORK

UEF// Digital tools for students

The University of Eastern Finland uses a wide range of digital tools that help you with your studies, work and communication. Using these tools is the best way to stay updated on matters pertaining to your studies and the university.

UEF// KAMU

The Student Handbook **KAMU** is an ever-evolving information bank, where you can find instructions that concern all students, as well as links to various services.

kamu.uef.fi



WEBOODI is your most important tool right from the start! Use WebOODi to register for the academic year, exams and courses, and to make your PSP.

weboodi.uef.fi



YAMMER is an internal communication channel for students and staff. Everyone can join in the discussion, follow different groups and create new ones. The UEF Students group is intended for information that concerns all students, and the Yammer group of your study community is good source of the latest information in your field. It's a smart move to join and follow both of these groups. You can find a link to Yammer on the university's home page.



AN EMAIL ACCOUNT is automatically created for you in the form username@student.uef.fi. Log in to your email and other O365 services by entering your username in the form username@uef.fi. You can find a link to student email on the university's home page.

uef.fi

A STUDY COMMUNITY is a community created for and featuring information aimed at students of a specific department, unit, major subject or degree programme. General studies-related information is also shared in the study communities. The study communities are part of the Office 365 environment, and you can log in with your UEF credentials. You can find links to the study communities in Kamu.



TUUDO is a free mobile app (for iOS and Android) via which you can register for courses and exams. In Tuudo, you can also find your study records and automatically created schedule, as well as campus maps and public transport timetables.

tuudo.fi

Feeling lost? Kamu will help you out!

All our latest information can be found in the online student handbook **Kamu**. There is information for all the phases of your studies – from freshman year to graduation. Besides guides, information on our services and UEF news, you can search for tips to improve your study skills, or check what kind of campus activities are available. Please check this online material to ensure your smooth start at UEF. Your orientation programme will start on 31 August 2020. The schedule of the orientation week can be found in

kamu.uef.fi

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