

Opasraportti

FSci - Minor subject guide, Faculty of Science (2019 - 2020)

Tutkintorakenteisiin kuulumattomat opintokokonaisuudet ja -jaksot

A300001: Basic Studies in Environmental Conservation, 25 - 59 op

Period 1

773346A: Environmental geology, 5 op

771113P: Introduction to Geology I, 5 op

771114P: Introduction to Geology II, 5 op

Period 2

754322A: Introduction to hydrobiology, 5 op

756348A: Ecological responses to global change and air pollution in the subarctic, 5 - 8 op

756347A: Conservation of biodiversity, 5 op

752175P: Environmental ecology, 5 op

750199P: Optional examinations in environmental protection, 2 - 6 op

750116P: Legislation in environmental protection, 5 op

Period 3

780119P: Introduction to Analytical Chemistry, 5 op

781309A: Environmental Chemistry, 5 op

Period 4

790102P: Introduction to the systematic Physical Geography, 5 op

790340A: Geographies of global development, 5 op

790346A: Nature conservation: a geographic perspective, 5 op

A320306: Geoinformatics, basics studies, 25 op

Minor studies in GIS is 15 or 25 ECTS

790101P: GIS-basics and Cartography, 5 op

790342A: Advanced course in GIS, 5 op

791630S: Book exam geoinformatic, 3 - 5 op

792617S: GIS Methods in Research, 5 op

791613S: Position based analyses and services in geography, 5 op

A320309: Regional development and regional policy, 25 op

Part of studies in Regional development and regional policy (25 ECTS)

790141P: Introduction to Regional Development and Regional Policy, 5 op

792301A: Economic Geography and its Applications, 5 op

792319A: Regional politics, policy and development: Northern Europe, 5 op

790350A: Special themes in Regional Development and Regional Policy, 5 op

790602S: Special research course in Regional Development and Regional Policy, 5 op

A320305: Tourism Studies, 25 op

Compulsory

790160P: Introduction to Tourism Geography, 5 op

790161A: Tourism, development and sustainability, 5 op

790320A: Tourism planning and development, 5 op

756347A: Conservation of biodiversity, 5 op

724106P: Principles of Marketing, 5 op

790165P: Substitutive course on Tourism, 3 - 5 op

Opintojaksojen kuvaukset

Tutkintorakenteisiin kuulumattomien opintokokonaisuuksien ja -jaksojen kuvaukset

A300001: Basic Studies in Environmental Conservation, 25 - 59 op

Opiskelumuoto: Basic Studies

Laji: Study module

Vastuuyksikkö: Faculty of Science

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Leikkaavuudet:

ayA300001 Basic Studies in Environmental Conservation (OPE UNI) 25.0 op

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

Period 1

773346A: Environmental geology, 5 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Oulu Mining School

Arvostelu: 1 - 5, pass, fail

Opettajat: Juha Pekka Lunkka

Opintokohteen kielet: Finnish

ECTS Credits:

5 credits

Language of instruction:

Finnish.

Timing:

2nd or 3rd year.

Learning outcomes:

Upon completion of the course, the student knows and understand:

main environmental concepts

environmental effects of the use of geological resources

geological risk factors

environmental effects of human and urban activity

acidification of soil and water

Contents:

After the course students knows and can describe environment geological concepts and can use them in estimation of the effect of natural geological processes and anthropogenic activities for the environment and nature.

Mode of delivery:

Face to face teaching.

Learning activities and teaching methods:

24 hours of guided teaching, teaching without guidance either privately or in groups and visits.

Target group:

Students in the 2nd or 3rd year.

Prerequisites and co-requisites:

The prerequisite is the completion of the following courses prior to enrolling for the course: Geologian peruskurssi II (771114P) and Johdatus Suomen maaperägeologiaan ja maaperän raaka-aineväriin (771116P) or similar knowledge.

Recommended or required reading:

Niini, H., Uusinoka, R. & Niinimäki, R. 2007. Geologia ympäristötoiminnassa. Rakennusgeologinen yhdistys - Byggnadsgeologiska föreningen r.y., 354 p. and Murck, B.W., Skinner, B.J. & Porter, S.C., 1996: Environmental Geology, John Wiley & Sons, 535 p., Other materials delivered during the course. The availability of the literature can be checked from [this link](#).

Assessment methods and criteria:

Participation in the lectures, activity in private or group works and final examination. The assessment of the course is based on the learning outcomes of the course. The more detailed assessment criteria are available on the Noppa Study Portal. Read more about assessment criteria at the University of Oulu webpage.

Grading:

1-5/fail.

Person responsible:

Pertti Sarala

Working life cooperation:

Working life cooperation The course could include visits to the companies or guest lectures of the course's subject.

771113P: Introduction to Geology I, 5 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Oulu Mining School

Arvostelu: 1 - 5, pass, fail

Opettajat: Kari Strand

Opintokohteen kielet: Finnish

Leikkaavuudet:

ay771113P Introduction to Geology I (OPEN UNI) 5.0 op

ECTS Credits:

5 credits

Language of instruction:

Finnish

Timing:

1st year autumn

Learning outcomes:

Students have an understanding of the basic concepts of the Earth, from its composition and internal *structure* to the geological *processes* that has led to its evolution the present Earth as part of the solar system. They can tell how endogenic processes in the mantle and crust produce magmas and how magmas produce different igneous rock type upon emplacement below and on the Earth's surface. Students are able to recognise and classify common igneous rocks based on their mineral composition and are familiar with common metamorphic rocks and know the metamorphic facies concepts. They can relate

deformation and metamorphism of the rocks to plate tectonic processes.

Contents:

Evolution of the Earth as part of the solar system, structure and composition of the Earth. Classification of igneous rocks, magmatism, origin and crystallisation of magmas, volcanism, metamorphism and formation of metamorphic rocks, plate tectonics and deformation structures.

Mode of delivery:

Face to face

Learning activities and teaching methods:

36 h lectures, 6 h exercises

Target group:

1st year geoscience students. The course is a good minor subject course for others.

Prerequisites and co-requisites:

Basic course in mineralogy (771102P) is parallel to this course.

Recommended optional programme components:

This course is intended as an introduction to the scope and methods of igneous and metamorphic petrology.

Recommended or required reading:

Martti Lehtinen, Pekka Nurminen and Tapani Rämö (1998) Suomen kallioperä – 3000 vuosimiljoonaa. Suomen Geologinen Seura, Gummerus Jyväskylä, ISBN 952-90-9260-1, Chapters 2-3. John Grotzinger & Thomas H. Jordan (2010 or 2014) Understanding Earth, 6th or 7th edition, Chapters 1-4, 6-7, 9-10, 12.

Assessment methods and criteria:

Written examination and identification test of rock types.

Grading:

5-1/fail

Person responsible:

Kari Strand

Working life cooperation:

No

771114P: Introduction to Geology II, 5 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Oulu Mining School

Arvostelu: 1 - 5, pass, fail

Opettajat: Juha Pekka Lunkka

Opintokohteen kielet: Finnish

ECTS Credits:

5 ECTS / 133 hours of work

Language of instruction:

Finnish

Timing:

1st year autumn

Learning outcomes:

Upon completion of the course, students should have acquired basic knowledge on the concepts and processes of surficial geology. Students should also be able to identify basic sediment types and soils.

Contents:

Basic concepts of surficial physical geology, weathering, erosion, sedimentation, and sediment types, soils and geological processes forming sedimentary deposits.

Mode of delivery:

Face to face teaching

Learning activities and teaching methods:

16 h lectures, 8 h exercises

Target group:

1st year Geoscience students. The course is a good minor subject course for others.

Prerequisites and co-requisites:

No

Recommended or required reading:

Handouts and John Grotzinger & Thomas H. Jordan (2010 or 2014) Understanding Earth, 6th or 7th edition, Chapters 5, 8, 15-21.

The availability of the literature can be checked from [this link](#).

Assessment methods and criteria:

Obligatory exercises and written examination

Grading:

5-1/fail

Person responsible:

Juha Pekka Lunkka and Tiina Eskola

Working life cooperation:

No

Period 2

754322A: Introduction to hydrobiology, 5 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Field of Biology

Arvostelu: 1 - 5, pass, fail

Opettajat: Muotka, Timo Tapani

Opintokohteen kielet: Finnish

Leikkaavuudet:

754308A Basic course in hydrobiology 3.0 op

ECTS Credits:

5 ECTS credits / 133 hours of work.

Language of instruction:

Finnish.

Timing:

B.Sc. 3rd spring, M.Sc. 1st spring. Even numbered years.

Learning outcomes:

Basic knowledge of inland water ecosystems structure, function and organisms. Basic concepts of hydrobiology which are necessary for further hydrobiology studies.

Contents:

Hydrography and physical and chemical properties of lakes and streams. Structure and ecological interactions of aquatic ecosystems (bacteria, plant and animal plankton, water insects, other invertebrates,

fishes). Most important biological interactions (competition, predation, parasitism, mutualism), inland water food web structure and regulation. Biodiversity of inland waters. Human influence on inland water biodiversity and ecosystem functions.

Mode of delivery:

Face-to-face teaching.

Learning activities and teaching methods:

26 h lectures, final exam.

Target group:

ECO, TEA.

Prerequisites and co-requisites:

No.

Recommended optional programme components:

Lectures are compulsory to the students taking the hydrobiology study package.

Recommended or required reading:

Course material and book Brönmark, C. & Hansson, L. 2005: The Biology of Lakes and Ponds. Oxford University Press, 285 p.

The availability of the literature can be checked from [this link](#).

Assessment methods and criteria:

Exam.

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

Grading:

1-5 / Fail.

Person responsible:

Prof. Timo Muotka.

Working life cooperation:

No.

Other information:

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756348A: Ecological responses to global change and air pollution in the subarctic, 5 - 8 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Field of Biology

Arvostelu: 1 - 5, pass, fail

Opettajat: Kari Taulavuori

Opintokohteen kielet: Finnish

Leikkaavuudet:

750343A Ecological responses to global change and air pollution in the subarctic 4.0 op

ECTS Credits:

5 (-8) cr / 133 (-240) h hours of work.

Language of instruction:

Finnish / English.

Timing:

B.Sc. / M. Sc. / Ph.D., (excursion arranged if resources allow).

Learning outcomes:

Student can identify the ecological and environmental effects of climate change and air pollution in the subarctic area. In addition, the student may learn basic research methods related to topic, and how to use the facilities provided by the subarctic research stations in the research.

Contents:

Lectures deal the ecological responses of global change and air pollution. The content is focused on the environmental effects and their ecological significance in the northern areas. During excursion the student familiarizes with the special features of northern areas and explores the action and research carried out in the northern research stations.

Mode of delivery:

Face-to-face teaching.

Learning activities and teaching methods:

(1) 24 h lectures with exam, and 15 h independent studies and seminar work (5 cr); (2) 4 days summer excursion (3 cr) if resources allow; participation in excursion necessitates accepted in the first part (lectures, independent studies).

Target group:

Ecology students.

Prerequisites and co-requisites:

No.

Recommended optional programme components:

-

Recommended or required reading:

-ACIA (2005) Arctic Climate Impact Assessment, Cambridge University Press, 1042 p. -AMAP Assessment 2006: Acidifying Pollutants, Arctic Haze, and Acidification in the Arctic. Arctic Monitoring and Assessment Programme (AMAP), Oslo, Norway. Xii + 112pp. Bell JNB & Trehow M (eds.) 2002. Air pollution and plant life. Wiley. 2nd edition. 480 pages.

The availability of the literature can be checked from [this link](#).

Assessment methods and criteria:

Lectures, essay and seminar, excursion, closing report and seminar. Assessment criteria: Exam. Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

Exam: 1-5 / Fail.

Person responsible:

Doc. Kai Taulavuori

Working life cooperation:

If resources allow excursion is arranged to the northern research stations.

Other information:

Field excursion is arranged if resources allow.

756347A: Conservation of biodiversity, 5 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Field of Biology

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Leikkaavuudet:

ay756347A Conservation of biodiversity (OPEN UNI) 5.0 op

752321A Conservation of Biodiversity 3.0 op

ECTS Credits:

5 ECTS credits / 133 hours of work.

Language of instruction:

English.

Timing:

M.Sc. ECOGEN.

Learning outcomes:

Students know the central concepts of biodiversity, threats to biodiversity, and methods of conservation of biodiversity.

Contents:

Biodiversity and its components. Major theories of the ecological control of biodiversity. Habitat fragmentation and habitat destruction and their consequences. Metapopulation theory and networks of nature reserves. Current issues in the conservation of biodiversity.

Mode of delivery:

Face-to-face teaching.

Learning activities and teaching methods:

28 h lectures, literature, exam.

Target group:

ECOGEN students (code S). Other studies (code A).

Prerequisites and co-requisites:

No

Recommended optional programme components:

-

Recommended or required reading:

Hanski I. 2005: The Shrinking World. International Ecology Institute, Oldendorf/Luhe, Germany. The availability of the literature can be checked from [this link](#).

Assessment methods and criteria:

Exam.

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

Grading:

1-5 / Fail.

Person responsible:

Dr. Phillip Watts.

Working life cooperation:

No.

Other information:

-

752175P: Environmental ecology, 5 op

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Field of Biology

Arvostelu: 1 - 5, pass, fail

Opettajat: Kari Taulavuori

Opintokohteen oppimateriaali:

Jarvis, Peter J. , , 2000

Chiras, Daniel D , , 2001

Opintokohteen kielet: Finnish

Leikkaavuudet:

ay752175P Environmental ecology (OPEN UNI) 5.0 op

ECTS Credits:

5 ECTS credits / 133 hours of work.

Language of instruction:

Finnish.

Timing:

Spring, (arranged if resources allow).

Learning outcomes:

After finishing the course student understands the ecological background of most important environmental questions and has knowledge to apply this to decision making in environmental problems.

Contents:

Ecological basics of nature conservation. Effects of physical and chemical environment on living organisms, basics of population ecology, communities and ecosystems. Environmental changes and how species can adapt to them. World wide environmental problems and actions to solve them are studied within the course. Special environmental questions in Finland and in Europe.

Mode of delivery:

Face-to-face teaching.

Learning activities and teaching methods:

Book exam and written report according to agreement with teacher.

Target group:

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Prerequisites and co-requisites:

No.

Recommended optional programme components:

-

Recommended or required reading:

Raven et al. 2012: Environment. Wiley & Sons, 516 p.

The availability of the literature can be checked from [this link](#).

Assessment methods and criteria:

Report and final exam.

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

Grading:

1-5 / Fail.

Person responsible:

Doc. Kari Taulavuori.

Working life cooperation:

No.

Other information:

Arranged if resources allow

750199P: Optional examinations in environmental protection, 2 - 6 op

Voimassaolo: - 31.12.2018

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Field of Biology

Arvostelu: 1 - 5, pass, fail

Opettajat: Kari Taulavuori

Opintokohteen kielet: Finnish

Leikkaavuudet:

ay750199P Optional examinations in environmental protection (OPEN UNI) 2.0 op

Voidaan suorittaa useasti: Kyllä

ECTS Credits:

2-6 ECTS credits / 53-160 hours of work. About 100 pages / 1 ECTS credit.

Language of instruction:

Most books are in English.

Timing:

B.Sc. or M.Sc. degree.

Learning outcomes:

To understand environmental protection in global context.

Contents:

Depends on the book.

Mode of delivery:

Face-to-face teaching.

Learning activities and teaching methods:

Three times per both semesters in university exam days. Exam days are announced in WebOodi.

Target group:

Biology, geography, geology, environmental engineering , exchange students.

Prerequisites and co-requisites:

No.

Recommended optional programme components:

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Recommended or required reading:

Gaston & Spicer (2004) Biodiversity – an introduction. Blackwell Publishing, 191p; Lockwood et al. (2007) Invasion Ecology, Blackwell Publishing, 304 p; ACIA (2005) Arctic Climate Impact Assessment, Cambridge University Press, 1042 p.; Dincer et al. (2013) Causes, Impacts and Solutions to Global Warming, Springer, 1183 p.

Assessment methods and criteria:

Exam.

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

Grading:

1-5 / Fail.

Person responsible:

Doc. Kari Taulavuori.

Working life cooperation:

No.

Other information:

Student has to consult about the selected literature before exam.

750116P: Legislation in environmental protection, 5 op

Voimassaolo: 01.08.2011 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Field of Biology

Arvostelu: 1 - 5, pass, fail

Opettajat: Kari Taulavuori

Opintokohteen kielet: Finnish

Leikkaavuudet:

ay750116P Legislation in environmental protection (OPEN UNI) 5.0 op

Ei opintojaksokuvauksia.

*Period 3***780119P: Introduction to Analytical Chemistry, 5 op**

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Field of Chemistry

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Leikkaavuudet:

780111P Introduction to Analytical Chemistry 4.0 op

780110P Analytical Chemistry I 5.5 op

ECTS Credits:

5 credits /134 hours of work

Language of instruction:

Finnish

Timing:

2nd autumn

Learning outcomes:

Upon completion the student should have acquired knowledge and understanding of basic concepts of quantitative chemical analysis employing classical methods of analysis.

Contents:

Steps in quantitative analysis, statistical evaluation of analytical data, chemical equilibrium in aqueous solutions, gravimetry, titrimetry, spectrophotometry.

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

30 hours of lectures + 20 hours of exercises + 84 hours of self-study

Target group:

Chemistry, compulsory. In the study entity of 25 credits compulsory.

Mathematical Sciences, Physical Sciences, optional.

Prerequisites and co-requisites:

General and Inorganic Chemistry A (780117P) and General and Inorganic Chemistry B (780118P), or General and Inorganic Chemistry I (780114P) and General and Inorganic Chemistry II (780115P), or Introduction to Chemistry (780113P), or Basic Principles in Chemistry (780109P).

Recommended optional programme components:

The course is an independent entity and does not require additional studies carried out at the same time.

Recommended or required reading:

Harvey, D.: Analytical Chemistry 2.0-an open-access digital textbook (can be loaded from Internet).
Saarinen, H. ja Lajunen, L.H.J.: Analyttisen kemian perusteet, Oulun yliopistopaino, 2004.

Assessment methods and criteria:

Two intermediate examinations or one final examination.

Grading:

The course utilizes a numerical grading scale 0-5. In the numerical scale zero stands for a fail.

Person responsible:

Paavo Perämäki

Working life cooperation:

No

Other information:

No

781309A: Environmental Chemistry, 5 op**Voimassaolo:** 01.08.2015 -**Opiskelumuoto:** Intermediate Studies**Laji:** Course**Vastuuyksikkö:** Field of Chemistry**Arvostelu:** 1 - 5, pass, fail**Opintokohteen kielet:** Finnish**Leikkaavuudet:**

ay781309A	Environmental Chemistry for Chemistry Teachers	5.0 op
780373A	Environmental Chemistry	3.0 op
780316A	Environmental Chemistry	2.0 op
780355A	Environmental Chemistry and Hazardous Wastes	4.0 op
780359A	Environmental Chemistry	4.0 op
780360A	Environmental Chemistry and Hazardous Wastes	5.5 op

ECTS Credits:

5 credits / 134 hours of work

Language of instruction:

Finnish, in English as a book examination

Timing:

The course is held in the spring semester

Learning outcomes:

Upon completion the student should have acquired an understanding of chemistry of atmosphere, hydrosphere and terrestrial environment. The student should have understanding of twelve principles of green chemistry. After the course the student is acquainted with the limitations of the use of dangerous chemicals and is able to find updated information of them.

Contents:

Fundamentals of environmental chemistry; chemistry of the soil, natural and waste waters and atmosphere, circulation of chemical compounds in the nature, chemical releases, environmentally toxic and other noxious compounds, environmental analytics and basics of physical measurements. Environmental friendly chemistry. The principles of green chemistry with examples of real life.

Mode of delivery:

Blended teaching

Learning activities and teaching methods:

Book examination 134 h of studying

Target group:

Chemistry, optional

Prerequisites and co-requisites:

General and Inorganic Chemistry A (780117P) or Basic Principles in Chemistry (780120P).

Recommended optional programme components:

The course is an independent entity and does not require additional studies carried out at the same time.

Recommended or required reading:

van Loon, G.W. & Duffy, S.J.: Environmental Chemistry, A Global Perspective, Oxford, 2000; Lancaster M.: Green Chemistry: An introductory text, RSC, 2002.

Assessment methods and criteria:

Book examination

Grading:

The course utilizes a numerical grading scale 0-5. In the numerical scale zero stands for a fail.

Person responsible:

Minna Tiainen

Working life cooperation:

No

Period 4

790102P: Introduction to the systematic Physical Geography, 5 op

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Field of Geography

Arvostelu: 1 - 5, pass, fail

Opettajat: Jan Hjort

Opintokohteen kielet: Finnish

Leikkaavuudet:

ay790102P Introduction to the systematic physical geography (OPEN UNI) 5.0 op

Voidaan suorittaa useasti: Kyllä

ECTS Credits:

5 ECTS cr

Language of instruction:

Finnish and English (Lectures are only in Finnish, but this course can be completed also in English with some extra readings. Practicals are also organized in English.)

Timing:

1 year, 2nd semester

Learning outcomes:

This introductory course will give information about systematic fields of Physical Geography and its contemporary research. After the course, the student recognizes the most essential phenomena of geosphere (geomorphology), hydrosphere (hydrogeography), biosphere (biogeography), atmosphere (climatology), and he/she is able to do conclusions about the factors that influence those phenomena. The aim of the practical's is that the student can use basic methods of the research of Physical Geography.

Contents:

Geomorphology, climatology, hydrogeography, biogeography; and geosphere, atmosphere, hydrosphere and biosphere. The students will learn how nature works and how to resolve multiple environmental questions. Practical's are focused to the importance of the material compilation and its technical use.

Mode of delivery:

Face-to-face learning.

Learning activities and teaching methods:

20 h lectures, 56 h practicals.

Target group:

Common course to all 1st year students of Geography.

Prerequisites and co-requisites:

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Recommended optional programme components:

Course is part of the minor studies of Geography.

Recommended or required reading:

- Strahler, Alan (2013). Introducing Physical Geography.
- More material from the practicals.

Assessment methods and criteria:

Exam on an exam day.

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

Grading:

1–5.

Person responsible:

Jan Hjort and Olli-Matti Kärnä

Working life cooperation:

No.

Other information:

Exchange students are asked to contact prof. Hjort before the course.

790340A: Geographies of global development, 5 op

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Field of Geography

Arvostelu: 1 - 5, pass, fail

Opettajat: Juha Ridanpää

Opintokohteen kielet: Finnish

Leikkaavuudet:

ay790340A Geographies of global development (OPEN UNI) 5.0 op

ECTS Credits:

5 ECTS

Language of instruction:

Finnish or English.

Timing:

2nd or 3rd year, 1st or 2nd semesters (autumn or spring semesters).

Learning outcomes:

This course gives knowledge of global development problems from geographical point of view. After the course the student can explain what development indicates and what kind of social and economic phenomena will explain both development and under development. He/she is also able to compare different actions that are aimed to diminish the uneven development based on different theories and strategies.

Contents:

The course familiarizes students to the theories that aim to explain differences in uneven development. Under development, and its social, cultural and economic aspects will be studied from national, regional and local level. This course also requires to political programs and strategies that are aimed to stabilize and equalize uneven development.

Mode of delivery:

Book exam.

Learning activities and teaching methods:

Book exam.

Target group:

Compulsory for teachers, others obligatory.

Prerequisites and co-requisites:

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Recommended optional programme components:

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Recommended or required reading:

- Potter, R.B.T, T. Binns, J.A.Elliot & D.Smith (2004). Geographies of development.

Assessment methods and criteria:

Exam on examinarium.

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

Grading:

1–5.

Person responsible:

Juha Ridanpää

Working life cooperation:

No.

790346A: Nature conservation: a geographic perspective, 5 op

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Field of Geography

Arvostelu: 1 - 5, pass, fail

Opettajat: Marja Lindholm

Opintokohteen kielet: Finnish

ECTS Credits:

5 ECTS

Language of instruction:

Finnish and English

Timing:

2nd or 3rd year, 1st or 2nd semester.

Learning outcomes:

The student is able to define and apply the most essential concepts of the discipline from the view point of Physical Geography.

Contents:

The student deepens his/her geographical way of thinking by reading the material of Physical Geography and by writing three applied essays. The topics of the essays are agreed separately with the course supervisor.

Mode of delivery:

The student gets course instructions and agrees the subjects of the essays with the course supervisor.

Learning activities and teaching methods:

Independent work, essays

Target group:

Major students in geography.

Prerequisites and co-requisites:

-

Recommended optional programme components:

Course is part of minor studies in Basic Studies in Environmental Conservation

Recommended or required reading:

List of source books is given together with course instructions.

Assessment methods and criteria:

The student writes three applied essays. Read more about assessment criteria at the University of Oulu webpage.

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

Grading:

The course utilizes a numerical grading scale 1-5.

Person responsible:

Marja Lindholm

Working life cooperation:

No.

A320306: Geoinformatics, basics studies, 25 op

Opiskelumuoto: Intermediate Studies

Laji: Study module

Vastuuyksikkö: Field of Geography

Arvostelu: 1 - 5, pass, fail

Opettajat: Harri Antikainen

Opintokohteen kielet: Finnish

Ei opintojaksokuvauksia.

Minor studies in GIS is 15 or 25 ECTS

790101P: GIS-basics and Cartography, 5 op

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Field of Geography

Arvostelu: 1 - 5, pass, fail

Opettajat: Harri Antikainen

Opintokohteen kielet: Finnish

Leikkaavuudet:

ay790101P GIS-basics and Cartography (OPEN UNI) 5.0 op

Voidaan suorittaa useasti: Kyllä

ECTS Credits:

5 ECTS

Language of instruction:

Finnish, partly in English. English speaking students are asked to contact prof. Rusanen before the course.

Timing:

1 year, 2nd semester

Learning outcomes:

Course gives basic information about Geographical Information System and about the theory of cartography. After the course the student can use ArcGIS program and he/she is able to produce cartographic presentations.

Contents:

Basics of GIS, theories of cartography and statistical graphics and use of ArcGIS program.

Mode of delivery:

Face-to-face learning.

Learning activities and teaching methods:

16 h lectures, 56 h practicals.

Target group:

Common course to all 1st year students of Geography.

Prerequisites and co-requisites:

-

Recommended optional programme components:

Course is part of the minor studies of GIS.

Recommended or required reading:

Paul A Longley, Michael G Goodchild, David J. Maguire & David W. Rhind (2005). Geographic Information Systems and Science. 2nd edition. 516 p

Assessment methods and criteria:

Exam on exam day.

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

Grading:

1–5.

Person responsible:

Harri Antikainen

Working life cooperation:

No

Other information:

English speaking students are asked to contact Harri Antikainen before the course.

790342A: Advanced course in GIS, 5 op

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Field of Geography

Arvostelu: 1 - 5, pass, fail

Opettajat: Harri Antikainen

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

ECTS Credits:

5 ECTS

Language of instruction:

Finnish.

Timing:

2nd year, 1st semester.

Learning outcomes:

The student knows the most essential analyses and methods of the GIS and is able to apply them independently in different research phases. In addition, the student manages the basis of the ArcGIS program and knows the most common types of the data of geographical information.

Contents:

Most central GIS methods by ArcGIS program in human and physical geography.

Mode of delivery:

Face-to-face learning.

Learning activities and teaching methods:

64 h practicals. Independent practical work.

Target group:

Common course to all students of Geography.

Prerequisites and co-requisites:

Course 790101P, GIS basics and cartography (or corresponding studies in Exchange students' home university).

Recommended optional programme components:

Course is part of minor studies of GIS.

Recommended or required reading:

Antikainen, H., Määttä-Juntunen, H. ja Ujanen, J. (2014). GIS-jatkokurssi. Opetusmoniste. (In Finnish).

Assessment methods and criteria:

Preparation of the practicals and seminar work.

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

Grading:

1–5.

Person responsible:

Jarmo Rusanen and Harri Antikainen

Working life cooperation:

No.

791630S: Book exam geoinformatic, 3 - 5 op

Voimassaolo: - 31.07.2020

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Field of Geography

Arvostelu: 1 - 5, pass, fail

Opettajat: Harri Antikainen

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

ECTS Credits:

3-5 ECTS

Language of instruction:

Finnish/English

Timing:

1st MSc-year, 2nd semester.

Learning outcomes:

Student increases her/his knowledge of other applications in geoinformatics

Contents:

Student does a book examination on geoinformatics related literature based on different applications issues.

Mode of delivery:

Book exam

Learning activities and teaching methods:

Book exam

Target group:

Part of GIS minor studies

Prerequisites and co-requisites:

-

Recommended optional programme components:

-

Recommended or required reading:

Ask professor Rusanen

Assessment methods and criteria:

Exam on examinarium.

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

Grading:

1-5

Person responsible:

Professor Rusanen

Working life cooperation:

No

Other information:

-

792617S: GIS Methods in Research, 5 op

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Field of Geography

Arvostelu: 1 - 5, pass, fail

Opettajat: Harri Antikainen

Opintokohteen kielet: Finnish

ECTS Credits:

5 ECTS

Language of instruction:

Finnish.

Timing:

1st or 2nd MSc-year, 2nd semester.

Learning outcomes:

Course will deepen geographical thinking. After the course, a student is able to use analysing methods of GIS in practicals and in thesis works.

Contents:

Analysing methods of GIS and their application on research.

Mode of delivery:

Face-to-face learning.

Learning activities and teaching methods:

14 hrs lectures.

Target group:

Especially GIS students.

Prerequisites and co-requisites:

-

Recommended optional programme components:

-

Recommended or required reading:

To be announced later, webpages of VirtualGIS.

Assessment methods and criteria:

Exam on exam day.

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

Grading:

1-5.

Person responsible:

Jarmo Rusanen

Working life cooperation:

No.

Other information:

Only in Finnish.

791613S: Position based analyses and services in geography, 5 op**Opiskelumuoto:** Advanced Studies**Laji:** Course**Vastuuyksikkö:** Field of Geography**Arvostelu:** 1 - 5, pass, fail**Opettajat:** Ossi Kotavaara**Opintokohteen kielet:** Finnish**Voidaan suorittaa useasti:** Kyllä**ECTS Credits:**

5 ECTS

Language of instruction:

Finnish and also English at need

Timing:

1st or 2nd MSc-year, 2nd semester.

Learning outcomes:

The objective is that the student understands basics of GPS positioning, can use GPS devices, can collect location based data by GPS and positioning in research.

Contents:

Basics of GPS and hand held devices, collecting location based geographical information by GPS, GPS data transformations with GIS, research by using GPS data. Location based services (LBS).

Mode of delivery:

Face-to-face learning.

Learning activities and teaching methods:

20 h lectures, reading circle, exercises, demonstrations and field working. Integrating GPS and LBS data with GIS and research in theory and practice. Written report and seminar.

Target group:

Especially students of GIS.

Prerequisites and co-requisites:

GIS basics and cartography and Advanced course of GIS have to be done.

Recommended or required reading:

NOPPA Study Portal

Assessment methods and criteria:

Written report and seminar.

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

1–5

Person responsible:

Ossi Kotavaara, Harri Antikainen

Working life cooperation:

No.

A320309: Regional development and regional policy, 25 op**Voimassaolo:** 01.08.2011 -**Opiskelumuoto:** Basic Studies**Laji:** Study module**Vastuuyksikkö:** Field of Geography**Arvostelu:** 1 - 5, pass, fail**Opettajat:** Eeva-Kaisa Prokkola**Opintokohteen kielet:** Finnish

Ei opintojaksokuvauksia.

*Part of studies in Regional development and regional policy (25 ECTS)***790141P: Introduction to Regional Development and Regional Policy, 5 op****Opiskelumuoto:** Basic Studies**Laji:** Course**Vastuuyksikkö:** Field of Geography**Arvostelu:** 1 - 5, pass, fail**Opettajat:** Eeva-Kaisa Prokkola**Opintokohteen kielet:** Finnish**Leikkaavuudet:**

ay790141P Introduction to planning geography (OPEN UNI) 5.0 op

ECTS Credits:

5 ECTS

Language of instruction:

Lectures in Finnish. Exchange students can take this course by taking the exam (extra literature for exchange students).

Timing:

1st year, autumn semester (1st period).

Learning outcomes:

The student is able to apply the most essential concepts of regional development and regional policy. He /she can tell the historical progress of regional development, regional policy and regional planning of Finland and its relationship to contemporary development of European Union.

Contents:

Regional development and regional policy from conceptual and empirical aspects; Theories and mechanisms of RD and RP; Local, national and international development based on regional planning.

Mode of delivery:

Face-to-face learning.

Learning activities and teaching methods:

20 hrs lectures, literature and written exam.

Target group:

Common course to all 1st year students of Geography.

Prerequisites and co-requisites:

-

Recommended optional programme components:

Course is part of minor studies in Geography and minor studies of Regional Development and regional planning.

Recommended or required reading:

Andy Pike, Andrés Rodríguez-Pose ja John Tomaney (2016). Local and Regional Development. (toinen painos)
Routledge. Saatavilla e-kirjana.

Assessment methods and criteria:

Exam on exam day.

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

Grading:

1-5.

Person responsible:

Eeva-Kaisa Prokkola

Working life cooperation:

No.

Other information:

Exchange students can take this course by taking the exam (extra literature for exchange students).

Literature for exchange students:

- Andy Pike, Andrés Rodríguez-Pose ja John Tomaney (2016). Local and Regional Development. Routledge.
- Anssi Paasi, Kaj Zimmerbauer (2016). Penumbra borders and planning paradoxes: Relational thinking and the question of borders in spatial planning. Environment and Planning A 2016, Vol. 48 (1) 75–93
- Martin, Lauren. & Eeva-Kaisa, Prokkola (2017). Making labor mobile: Borders, precarity, and the competitive state in Finnish migration politics. Political Geography 60C, 143-153.

Further information ask teacher.

792301A: Economic Geography and its Applications, 5 op

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Field of Geography

Arvostelu: 1 - 5, pass, fail

Opettajat: Eeva-Kaisa Prokkola

Opintokohteen kielet: Finnish

ECTS Credits:

5 ECTS

Language of instruction:

in Finnish only

Timing:

2nd year, 1st semester

Learning outcomes:

The course approaches economic geography as applied to the perspectives of regional development and policy. The aim of the course is to familiarize the student with current issues and related theoretical debates in economic geography. After the course, student is able to outline the main features of the central theories in economic geography, and to apply these theories in the context of regional development and policy.

Contents:

Lectures approach economic geography from varied angles, with emphasis on regional development and policy. The course material contains scientific papers connected to each lecture. The course also includes

an essay and related seminar. In the essay and seminar, students deepen and enrich the content of the lectures by means of theoretical reflection and practical case studies.

Mode of delivery:

10 hours of lectures, article package, examination and practicals (an essay and a seminar). Participation in the lectures is obligatory.

Learning activities and teaching methods:

Lectures, essay and seminar

Target group:

Obligatory for students of the regional development and regional policy, for others voluntary.

Prerequisites and co-requisites:

-

Recommended optional programme components:

The course is part of minor studies of regional development and regional policy.

Recommended or required reading:

Lectures and articles.

Assessment methods and criteria:

Attending to lectures, essay and seminar.

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

Grading:

1–5.

Person responsible:

Eeva-Kaisa Prokkola, Jonne Hytönen

Working life cooperation:

No.

792319A: Regional politics, policy and development: Northern Europe, 5 op

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Field of Geography

Arvostelu: 1 - 5, pass, fail

Opettajat: Heikki Sirviö

Opintokohteen kielet: Finnish

ECTS Credits:

5 ECTS

Language of instruction:

Finnish and English. English speaking students should contact the teacher before the course.

Timing:

2nd year, 1st semester

Learning outcomes:

Upon completion of the course the student will be able to:

- analyse and classify basic theories, concepts and models of regional development and policy,
- apply theories, concepts and models in interpretation, recognize their use in scientific papers and discuss them,
- perceive the characteristics and challenges in the regional development and policy in Northern Europe.

Contents:

Students familiarize themselves with the basic theories, concepts, and models of regional development and policy, and their application in practical challenges and decision-making by reading and analysing scientific articles.

Mode of delivery:

Face-to-face teaching, independent work.

Learning activities and teaching methods:

The course involves 14 h of reading group sessions and 118 h of self-learning by reading the assigned articles, writing memos and preparing an essay.

Target group:

Students who take the Regional development and policy module.

Prerequisites and co-requisites:

-

Recommended optional programme components:

The course does not require additional studies carried out at the same time. Course is part of minor studies of regional development and regional policy.

Recommended or required reading:

Reading list will be available by the beginning of the course.

Assessment methods and criteria:

The assessment criteria are based on the learning outcomes of the course. Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

1–5.

Person responsible:

Heikki Sirviö

Working life cooperation:

No.

790350A: Special themes in Regional Development and Regional Policy, 5 op

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Field of Geography

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

5 ECTS

Language of instruction:

Finnish and English

Timing:

2nd or 3rd year, 1st or 2nd semesters (autumn or spring semesters)

Learning outcomes:

- 1) Student understands the idea of Communicative Planning Theory. Student acquaint her/himself with critical theoretical debates regarding the communicative approach.
- 2) Student understands the theoretical debates about strategic planning and city-regionalism. Student learns to interpret novel and forthcoming reforms in the planning system from a critical point of view.

Contents:

communicative planning theory, market-driven processes and planning, strategic planning and city-regionalism, reforms of planning system

Mode of delivery:

Compilation of essays. Exchange students are asked to contact the teacher in advance, if planning to pass the course during her/his exchange.

Learning activities and teaching methods:

Student studies the given literature with care and writes the compilation of essays independently. Detailed instructions from the teacher.

Target group:

Students specializing in Regional Development and Policy, voluntary for others.

Prerequisites and co-requisites:

The course is planned for those students who already have some basic knowledge of regional development or regional policy. The student should have passed some general level introductory studies to the field of regional development/policy in her/his home institution (equivalent to the course 'Introduction to Regional Development and Regional Policy' in Oulu) before attending this course. Please contact teacher in advance and clarify your starting level to her/him.

Recommended optional programme components:

-

Recommended or required reading:

Ask instructions and the list of literature from the teacher.

Assessment methods and criteria:

Compilation of essays as independent work.

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

Grading:

1–5.

Person responsible:

Vesa Väättänen. During summer (1.7.-31.8.2020) Marika Kettunen.

Working life cooperation:

No.

Other information:

Exchange students are asked to contact the teacher before registration.

790602S: Special research course in Regional Development and Regional Policy, 5 op

Voimassaolo: 01.01.2017 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Field of Geography

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

ECTS Credits:

5 ECTS

Language of instruction:

Finnish or English.

Timing:

1st or 2nd MSc-year, 1st or 2nd semester.

Learning outcomes:

The student will deepen and develop his/her geographical knowledge through literature or through empirical study. More exact learning outcomes is based on method of implementation of the course (agreed with professor).

Contents:

This course serves the specialization of the student. After the course, the student has deepened his/her knowledge and experience in his/her field of specialization.

Mode of delivery:

Face-to-face learning.

Learning activities and teaching methods:

This course may be performed by different ways. The student can: to make another final exam from other module; to carry out some other course from other module; work as research assistant; to make virtual course related to his/her field; to make manuscript based on his/her Master Thesis. Ways of performance can be discussed with professor.

Target group:

MSc-students of each module.

Recommended optional programme components:

Course can be selected from another module of advanced studies of Geography.

Recommended or required reading:

Will be agreed with professor.

Assessment methods and criteria:

Written exam on examinarium or other way of performance.

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

Grading:

1–5.

Person responsible:

Eeva-Kaisa Prokkola

Working life cooperation:

Yes. Working in research or development projects gives completion for working after graduation.

A320305: Tourism Studies, 25 op

Opiskelumuoto: Basic Studies

Laji: Study module

Vastuuyksikkö: Field of Geography

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish

Leikkaavuudet:

ayA320305 Tourism Studies (OPEN UNI) 25.0 op

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

Compulsory

790160P: Introduction to Tourism Geography, 5 op

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Field of Geography

Arvostelu: 1 - 5, pass, fail

Opettajat: Saarinen, Jarkko Juhani

Opintokohteen kielet: Finnish

Leikkaavuudet:

790160A Introduction to tourism geography 5.0 op

ECTS Credits:

5 ECTS

Language of instruction:

Finnish

Timing:

1st year, 1st semester.

Learning outcomes:

Student will learn about the tourism phenomenon and its regional and development characteristics and impacts. After the course the student can define and interpret different aspects of the tourism geography and its subject matters.

Contents:

Basic concepts of the tourism phenomena, spatial characteristics of tourism and its development aspects.

Mode of delivery:

Face-to-face learning.

Learning activities and teaching methods:

16 h lectures, exam.

Target group:

Common course to all 1st year students of Geography.

Prerequisites and co-requisites:

-

Recommended optional programme components:

Course is part of the minor studies of Tourism studies.

Recommended or required reading:

- Hall, C.M., Muller, D.K. and J. Saarinen (2009). Nordic Tourism: Issues and Cases.
- Hall, C.M. and S. Page (1999 or later edition). The Geography of Tourism and Recreation - Environment, Place and Space (partly)

Assessment methods and criteria:

Exam on exam day.

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

Grading:

1–5.

Person responsible:

Jarkko Saarinen

Working life cooperation:

No

790161A: Tourism, development and sustainability, 5 op

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Field of Geography

Arvostelu: 1 - 5, pass, fail

Opettajat: Kaarina Tervo-Kankare

Opintokohteen kielet: Finnish

Leikkaavuudet:

ay790161A Tourism, sustainability and environment (OPEN UNI) 4.0 op

ECTS Credits:

5 ECTS

Language of instruction:

English

Timing:

2nd year, 1st semester

Learning outcomes:

After the course, the student understands and can apply the principles of sustainable tourism in different contexts; he/she understands the importance of sustainable development in tourism in different contexts and from different viewpoints (spatial, stakeholder, sector). Student acknowledges the utilization of tourism for diverse development purposes and has basic understanding about its potential pitfalls, especially in the Global South framework. The student can analyse and compare the impacts and meaning of different tourism activities to sustainable development.

Contents:

The course focuses on the idea of sustainable tourism and sustainable development with emphasis on tourism in Global South. The course examines the conceptual and practical dimensions of sustainable tourism, its relationship with sustainable development in general and the applicability and problems associated with it. The course's basic concepts include the following: tourism and sustainable development, sustainable tourism, tourism impacts and sustainability at different scales (local-global) and environments, the roles of different actors (stakeholders) in sustainable tourism, tourism development plans and policies, methods to measure sustainability in tourism and tourism development, the role of sustainable tourist.

These concepts will be discussed both theoretically and in practice, highlighting their relevance in the Global South dimension and utilizing examples in different contexts. Some topical issues relating with the main theme sustainable tourism, such as pro-poor tourism and climate change will be covered in the Global South contexts. In addition, the student chooses one relevant topic to which she/he familiarizes. Increase knowledge about the role and meaning of tourism in relation to development at different scales, and in different contexts, in the sustainability framework. Sustainability will be examined throughout the tourism system, at different scales and in diverse environments, with central focus on the development issues in the Global South.

Mode of delivery:

Most of the course is virtual, and realized in Moodle environment. Virtual lectures, readings, small tasks, group discussions and assignments.

Learning activities and teaching methods:

Lectures, self study, group work, web-based work, essay. To be confirmed at the first lecture.

Target group:

Students of geography who will specialize to Tourism Geography. Course is also part of minor studies tourism geography.

Prerequisites and co-requisites:

-

Recommended or required reading:

Most of the course material will be provided via the course's Moodle environment.

Assessment methods and criteria:

Evaluation will be based on the learning diaries and the final assignment, which is also evaluated by peers. Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

1–5.

Person responsible:

Senior lecturer Kaarina Tervo-Kankare

Working life cooperation:

No.

790320A: Tourism planning and development, 5 op

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Field of Geography

Arvostelu: 1 - 5, pass, fail

Opettajat: Kaarina Tervo-Kankare

Opintokohteen kielet: Finnish

Leikkaavuudet:

ECTS Credits:

5 ECTS

Language of instruction:

Finnish and English.

Timing:

3 year, 2nd semester.

Learning outcomes:

After this course, student understands the relationship between tourism planning and regional development and he/she knows the most central models of planning and development in local, regional and national level. He/she knows the starting points of the tourism policy in local and European level, the background aspects of the tourism policy.

Contents:

Concepts and theories of the tourism development and tourism planning, economic impacts in regional level and basic aspects of the tourism policy and regional tourism strategies.

Mode of delivery:

Face-to-face learning.

Learning activities and teaching methods:

Lectures, written seminar work and presentation, exam.

Target group:

Students who're specialising to Tourism Geography. Course is part of minor studies tourism geography.

Prerequisites and co-requisites:

-

Recommended optional programme components:

Course is part of minor studies tourism geography.

Recommended or required reading:

- Hall, C.M. (2000). Tourism Planning: Policies, Processes and Relationships. 236 s. Prentice Hall, Harlow.
- Fennel, David A. (1999 or later version). Ecotourism – an introduction (partly).

Assessment methods and criteria:

Exam on exam day.

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

1–5.

Person responsible:

Kaarina Tervo-Kankare

Working life cooperation:

No.

Other information:

Written exam can be written also in Finnish. Written seminar work and presentation is in English. If needed, this course can be organised as written exam and practical's.

756347A: Conservation of biodiversity, 5 op**Voimassaolo:** 01.08.2015 -**Opiskelumuoto:** Intermediate Studies**Laji:** Course**Vastuuyksikkö:** Field of Biology**Arvostelu:** 1 - 5, pass, fail**Opintokohteen kielet:** Finnish

Leikkaavuudet:

ay756347A Conservation of biodiversity (OPEN UNI) 5.0 op
 752321A Conservation of Biodiversity 3.0 op

ECTS Credits:

5 ECTS credits / 133 hours of work.

Language of instruction:

English.

Timing:

M.Sc. ECOGEN.

Learning outcomes:

Students know the central concepts of biodiversity, threats to biodiversity, and methods of conservation of biodiversity.

Contents:

Biodiversity and its components. Major theories of the ecological control of biodiversity. Habitat fragmentation and habitat destruction and their consequences. Metapopulation theory and networks of nature reserves. Current issues in the conservation of biodiversity.

Mode of delivery:

Face-to-face teaching.

Learning activities and teaching methods:

28 h lectures, literature, exam.

Target group:

ECOGEN students (code S). Other studies (code A).

Prerequisites and co-requisites:

No

Recommended optional programme components:

-

Recommended or required reading:

Hanski I. 2005: The Shrinking World. International Ecology Institute, Oldendorf/Luhe, Germany. The availability of the literature can be checked from [this link](#).

Assessment methods and criteria:

Exam.

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

Grading:

1-5 / Fail.

Person responsible:

Dr. Phillip Watts.

Working life cooperation:

No.

Other information:

-

724106P: Principles of Marketing, 5 op

Voimassaolo: 01.08.2014 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Oulu Business School

Arvostelu: 1 - 5, pass, fail

Opettajat: Satu Nätti

Opintokohteen kielet: Finnish

Leikkaavuudet:

ay724106P Principles of Marketing (OPEN UNI) 5.0 op

ay721409P Principles of Marketing (OPEN UNI) 5.0 op

721409P Firm in the Network Contexts 5.0 op

Voidaan suorittaa useasti: Kyllä

ECTS Credits:

5 credits

Language of instruction:

Finnish

Timing:

Period 3 (1st year).

Learning outcomes:

Upon completion of this course, students are able to define the role of marketing in the organization, likewise define basic concepts of marketing (customer perceived value, value creation process, value-based market analysis and strategy, segmenting, value proposition, targeting and marketing mix, for example). After completing this course, the student is able to differentiate variety of marketing logics in variety of contexts (for example, differences between consumer marketing and B-to-B marketing). The student is able to use concepts of marketing to aid decision making and evaluate the suitability of these decisions from customer viewpoint.

Contents:

During the course, following themes will be discussed: 1) Basic concepts and phenomena: e.g., value creation in customer relationships and marketing in different contexts, 2) Strategic tools of marketing and latest trends 3) Basics of consumer behavior, 4) Marketing and sustainable development, 5) B-to-B marketing and sales, 6) integrated marketing communications, 7) Digital marketing, 8) Distribution channels and networks.

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

36 hours of lectures and visiting lecturer presentations, group work and group's learning diary (20h), independent reading of the textbook and articles (77 h). This course can be passed by doing weekly learning assignments OR an exam.

Target group:

Major students in economics and business administration

Prerequisites and co-requisites:

-

Recommended optional programme components:

This course is part of "Introduction to business studies" -module

Recommended or required reading:

[Kotler, P & Armstrong, G. \(2013\), Principles of marketing, 15th ed.](#) or later editions. All the other shared material.

Assessment methods and criteria:

1) Group work and 2) exam or weekly learning assignments.

Grading:

The course unit utilizes a numerical grading scale 1-5. In the numerical scale zero stands for a fail.

Person responsible:

Professor of Marketing Satu Nätti and Dr. Outi Keränen.

Working life cooperation:

Upon completion of this course, the student recognizes the meaning of customer-orientation in organizations and in one's individual actions and professional development. Group work (business simulation) gives wide view on organization entity and activities, likewise understanding of the link between decision making, customer experience and consequent profitability of organization. Basics of group working skills are rehearsed to be applied in later studies and work life.

Other information:

The number of students is limited.

790165P: Substitutive course on Tourism, 3 - 5 op

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Field of Geography

Arvostelu: 1 - 5, pass, fail

Opettajat: Saarinen, Jarkko Juhani

Opintokohteen kielet: Finnish

Leikkaavuudet:

ay790165P Substitutive course on Tourism (OPEN UNI) 5.0 op

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.