

Opasraportti

FHum - Human Evolution and Behavior (2017 - 2018)

Human Evolution and Behavior (25 ECTS credits)

Courses in academic year 2017-18:

750336A Evolutionary ecology, 5 ECTS cr - Sami Aikio, Ecology, Faculty of Science
751366A Animal behaviour, 5 ECTS cr - Arja Kaitala, Ecology, Faculty of Science
687361P Biology and Culture, 5 ECTS cr - Markku Niskanen, Faculty of Humanities
694815S Evolution of communication, 5 ECTS cr - Matti Lehtihalmes, Faculty of Humanities

No teaching in academic year 2017-18:

700168A Evolutionary thinking from Antiquity to neo-Darwinism, 5 ECTS cr - Petter Pietikäinen, Faculty of Humanities
The course can be completed by book exam. Peter Bowler: Evolution - The History of an Idea

Tutkintorakenteisiin kuulumattomat opintokokonaisuudet ja -jaksot

751366A: Animal behaviour, 5 op
687361P: Biology and Culture, 5 op
694815S: Evolution of communication, 5 op
750336A: Evolutionary ecology, 5 op
700168A: Evolutionary thinking from Antiquity to neo-Darwinism, 5 op

Opintojaksojen kuvaukset

Tutkintorakenteisiin kuulumattomien opintokokonaisuuksien ja -jaksojen kuvaukset

751366A: Animal behaviour, 5 op

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Field of Biology

Arvostelu: 1 - 5, pass, fail

Opettajat: Kaitala Arja

Opintokohteen kielet: Finnish

ECTS Credits:

5 ECTS credits / 133 hours of work.

Language of instruction:

Finnish.

Timing:

B.Sc. 3rd spring or M.Sc. 1st spring ECOz.

Learning outcomes:

To understand basic principles of animal behaviour in an evolutionary ecology contest.

Contents:

Student report learning diary of the lectures each week to optima. Besides lectures the course consists of an experimental part in which students make a group work on animal behavior. The results are reported in one seminar.

Mode of delivery:

Face-to-face teaching.

Learning activities and teaching methods:

30 h lectures, seminars, exam.

Target group:

B.Sc. degree optional to ECO, M.Sc. degree compulsory to ECOz.

Prerequisites and co-requisites:

No.

Recommended optional programme components:

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Recommended or required reading:

Davis, NB, Krebs, JR, & West, SA N.B. (2012) An Introduction to Behavioural Ecology, 4th ed, Wiley-Blackwell.

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

Assessment methods and criteria:

(evaluation) Learning diary and exam (voluntary).

Grading:

1-5 / Fail.

Person responsible:

Prof. Arja Kaitala.

Working life cooperation:

No.

Other information:

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687361P: Biology and Culture, 5 op

Voimassaolo: 01.08.2015 -

Opiskelumuoto: Basic Studies

Laji: Course

Vastuuyksikkö: Faculty of Humanities

Arvostelu: 1 - 5, pass, fail

Opettajat: Markku Niskanen

Opintokohteen kielet: English, Finnish

Leikkaavuudet:

ay687361P Biology and Culture (OPEN UNI) 5.0 op

ECTS Credits:

5 ECTS credits

Language of instruction:

Finnish

Timing:

1st year

Learning outcomes:

Students will be able to utilise basic concepts of biological anthropology and explain the evolution of the human species and its geographical variations. Students will be able to define interaction and relations between biology, culture and the environment. Students will also be able to explain the variations of the human species. Students will be able to define the concepts concerning health, sickness, gender, embodiment, and human being as socially constructed and culturally diverse.

Contents:

Biocultural evolution of humans; relationship of biology, culture, and the environment; biological and cultural variation and adaptation; cultural construction of concepts of health, sickness, gender, and embodiment

Mode of delivery:

Contact teaching

Learning activities and teaching methods:

Lectures

Target group:

First-year students of Cultural Anthropology and Archaeology

Prerequisites and co-requisites:

None

Recommended optional programme components:

None

Recommended or required reading:

Material handed out during lectures

Assessment methods and criteria:

Formal lecture examination or (written) assignments

Grading:

0–5

Person responsible:

University Researcher Markku Niskanen

Working life cooperation:

None

694815S: Evolution of communication, 5 op

Voimassaolo: 21.09.2016 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Faculty of Humanities

Arvostelu: 1 - 5, pass, fail

Opettajat: Matti Lehtihalmes

Opintokohteen kielet: Finnish

ECTS Credits:

5 ECTS credits

Language of instruction:

Finnish

Timing:

Spring 2017

Learning outcomes:

Students learn about the special features of communication of human and other animals, various forms of human linguistic and non-linguistic communication as well as different theories of evolution of human speech and language. After the course, students are able to explain basic evolutionary routes of communication.

Contents:

Forms and features of animal communication. Evolution of cognition and culture. Evolution of speech, language and interaction.

Mode of delivery:

Lectures and workshops 20 h; independent work 115 h

Learning activities and teaching methods:

Lectures and learning diary

Target group:

Not specified

Prerequisites and co-requisites:

No prerequisites

Recommended or required reading:

Scientific literature on the evolution of communication

Assessment methods and criteria:

In order to pass the course, students have to actively participate in the classes, return their writing assignments in time and display their knowledge about the contents of the course as well as their own thinking about the subject in the learning diary.

Grading:

Pass/fail

Person responsible:

Matti Lehtihalmes

Working life cooperation:

None

Other information:

The course is part of the minor subject "Human evolution and behaviour"

750336A: Evolutionary ecology, 5 op

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Field of Biology

Arvostelu: 1 - 5, pass, fail

Opettajat: Aikio, Sami Aslak

Opintokohteen kielet: Finnish

ECTS Credits:

5 ECTS credits / 133 hours of work.

Language of instruction:

Finnish / (English).

Timing:

B.Sc. degree 2nd autumn.

Learning outcomes:

To understand main principles of evolution and the concepts of natural selection, fitness and adaptation. Learn basics of life-history adaptation, speciation processes and social evolution.

Contents:

The aim of the course is to introduce a student with lectures and seminars to the main topics of evolutionary ecology, for example basic concepts of natural selection and evolution, selection level, speciation, evolution of life cycles, interactions between and within species are included. Review to the latest research results.

Mode of delivery:

Face-to-face teaching.

Learning activities and teaching methods:

36 h lectures and compulsory seminars, exam.

Target group:

BS and ECO compulsory, TEAeco optional.

Prerequisites and co-requisites:

No.

Recommended optional programme components:

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Recommended or required reading:

Additional reading: Björklund, Mats 2009 Evoluutiobiologia. Gaudeamus, Sterans, S. and Hoekstra, R. F. 2005: Evolution, An Introduction. Oxford University Press, New York, 575 p.

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

Assessment methods and criteria:

Seminar and exam.

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

Grading:

1-5 / Fail.

Person responsible:

Doc. Sami Aikio.

Working life cooperation:

No.

Other information:

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700168A: Evolutionary thinking from Antiquity to neo-Darwinism, 5 op

Voimassaolo: 07.09.2016 -

Opiskelumuoto: Intermediate Studies

Laji: Course

Vastuuyksikkö: Faculty of Humanities

Arvostelu: 1 - 5, pass, fail

Opettajat: Pietikäinen, Petteri Olli

Opintokohteen kielet: Finnish

Voidaan suorittaa useasti: Kyllä

ECTS Credits:

5 ECTS credits / 135 hours of work

Language of instruction:

Finnish/English

Timing:

Free

Learning outcomes:

Students learn about the history of evolutionary thinking and are able to explain the main developments in this history from Antiquity to the late 20th century.

Contents:

Topics to examine include the ideas of human nature and "great chain of being" from the Greek philosophy to the early modern age; the idea of evolution from the Enlightenment to Darwin; theories of evolution from Darwin to the late 20th-century Neo-Darwinism; and a discussion about the points of contact between biological and human sciences.

Mode of delivery:

Lectures and workshops 24 h; independent work 111 h

Target group:

Not specified

Prerequisites and co-requisites:

No prerequisites

Recommended or required reading:

Assigned literature

Assessment methods and criteria:

In order to pass the course, students have to actively participate in the classes, return their writing assignments in time and display their knowledge about the contents of the course as well as their own thinking about the subject in the learning diary.

Grading:

Pass/fail

Person responsible:

Petteri Pietikäinen

Working life cooperation:

None

Other information:

The course is part of the minor subject "Human evolution and behaviour"