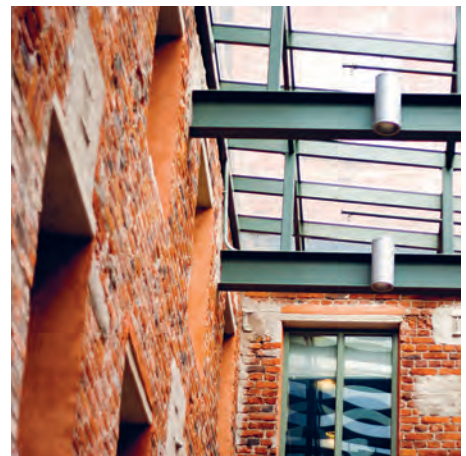
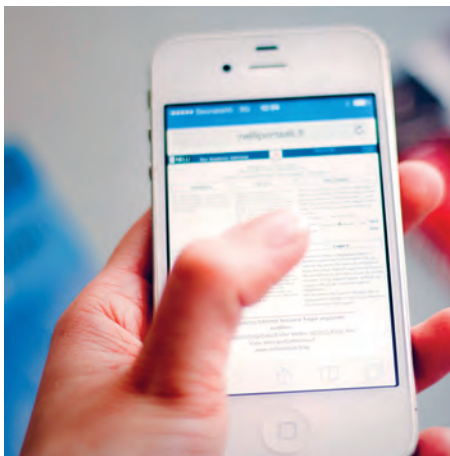
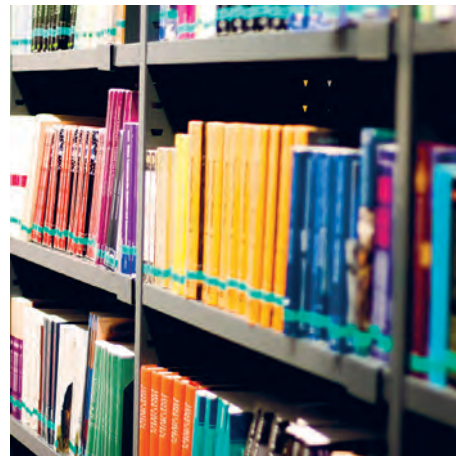


STUDY IN ENGLISH

2014 - 2015

COURSE CATALOGUE



Study in English 2014-2015 Åbo Akademi University

Vammalan Kirjapaino, Sastamala 2014

This publication is also published online at: www.abo.fi/student/en/courses

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Course information 2014-2015

Courses at the
Åbo Campus

Arts

Art History

The study of Art History at Åbo Akademi University conveys the basic methodical and theoretical knowledge of the discipline, as well as abilities in describing and interpreting images, mainly works of art, design, and architecture from the past until today. Art historians at ÅAU study the significance of images and buildings in their social, cultural and historical context but also the works of art as material objects.

Art and Architecture in Finland

5 cr

Lectured course

Basic, intermediate, and advanced levels

Offered: Spring 2015

Lecturer: Pia Wolff-Helminen

Aim & content: Finland obtained independency as late as 1917. Before that, for more than six hundred years, Finland constituted the eastern part of the kingdom of Sweden. After years of devastating wars, Finland fell under the rule of the Russian empire. The rather strained relation with the Russian power led to the rise of a strong national movement, the goal of which was eventually reached as one of the consequences of the Russian revolution. The course provides an overview of traditions and trends within architecture and visual art in Finland, examining the influences of Swedish and Russian rule on the arts and the impact the independency had on the development of the arts in the young republic.

Learning outcomes: Having finished the course, the student should be able to give a structured account of main trends, events and important works in the history of architecture and visual art in Finland and understand the context in which the arts took form. The student should also be able to broadly recognize stylistic differences in works from different periods of time. During the course, the student will develop skills in critical reading and critical discussion as well as in reading and analysing pictures.

Teaching methods: Lectures, conducted discussions

Entry requirements: None, except for sufficient knowledge of English

Target group: Exchange students at Åbo Akademi University

Form of assessment: Thematic group assignments based on reading and discussion, written examination by the end of the course

Course literature:

Art in Finland : from the Middle Ages to the present day, Esbo 2000

Lundström, Marie-Sofie: Travelling in a Palimpsest : Finnish nineteenth-century painters' encounters with Spanish art and culture, Helsinki 2008

Fewster, Derek: Visions of past glory : nationalism and the construction of early Finnish history, Helsinki 2006

Comparative Literature

The study of literature is about books. Their topic, more often than not, is human beings and being human. To this we add a load of books about books. Literary students aim to find out how texts are made and have been made throughout history, and how they interact with readers and in society. It is quite an exciting story.

The staff at the Department has weekly office hours when the students are welcome to study-counseling (at other times by appointment). The course literature is available for reading at the Department.

Introduction to Finland-Swedish literature

103700.1

10 credits

Lectured course

Basic level, no prerequisites

Offered: Spring 2015

Lecturers: FM Freja Rudels and FM Katja Sandqvist

Contact hours: 30

Aim and content: The course focuses on twentieth-century Finland-Swedish prose and poetry in English translation. Beginning with the modernists, Edith Södergran, Elmer Diktonius, Gunnar Björling and Hagar Olsson, we also deal with post-war writers of poetry and prose such as Claes Andersson, Bo Carpelan, Monika Fagerholm, Tove Jansson, Solveig von Schoultz, Henrik Tikkanen, Märta Tikkanen and Kjell Westö.

During the course we read poetry and prose from the twentieth century, as well as secondary texts which help us understand and discuss Finland-Swedish literature. We will discuss themes of the texts as well as their aesthetic features. A great deal of focus will be put on the students' own impressions and opinions of the texts. We will put the texts into a Finland-Swedish context and take on a minority literature perspective, but will also be discussing how these facts fit into a broader, international perspective. What is Finland-Swedish literature? How has the culture in which these texts were written influenced them? Are there patterns or tendencies to be found among them? What makes them unique? And what do they bring readers from abroad today?

The sessions will consist of the students' short work presentations, lectures, and above all discussions of the literary texts. Each session is 4 hours, except for the two first sessions and the last, which are 2 hours.

Course outline:

1. Introduction
2. About Finland-Swedish Literature
3. Modernist poetry (Edith Södergran, Elmer Diktonius, Gunnar Björling)
4. Brave New Voices (Hagar Olsson, Märta Tikkanen)
5. In and around the Moominvalley (Tove Jansson)
6. "Angry Young Men" – Memoirs and Politics (Claes Andersson, Henrik Tikkanen)
7. A Poetic Point of View (Solveig von Schoultz, Bo Carpelan)
8. A Great Finland-Swedish Novel? (Monika Fagerholm + video screening)
9. Final session and Kjell Westö

Form of assessment: Weekly response paper (1 page), one short oral presentation of a work from the literature list, final paper.

Learning outcomes:

At the end of this course the student:

- can give an account of some main features of twentieth century Finland-Swedish literature
- can discuss both thematic and aesthetic features of a selec-

tion of twentieth century Finland-Swedish poetry and prose – can relate this selection of texts to a Finland-Swedish context, including a minority literature perspective as well as a broader, international perspective

Literature:

Andersson, Claes, *What Became Words*, transl. Rika Lesser
 Antas, Maria, “The Continual Meeting. A few words on a small body of literature and its unlikely changes”
 Björling, Gunnar, poems in *Ice Around Our Lips*
 Carpelan, Bo, *Room Without Walls*. Selected Poems, transl. Anne Bon
 Diktonius, Elmer, poems in *Ice Around Our Lips*
 Ekman, Michel, “Whose language is this, anyway?” (<http://kaapeli.fi/ff/ekman.htm>)
 Fagerholm, Monica: *Wonderful Women by the Sea*
 Ingström, Pia, “A Cycle of Pictures: Monica Fagerholm’s Wonderful Women by the Sea”
 Jansson, Tove, *Moominpappa at Sea*, transl. Kingsley Hart
 Jansson, Tove, *Art in Nature*
 McDuff, David: “Introduction”, *Ice Around Our Lips*
 Olsson, Hagar, “I Live. A Study in human values”, transl. Donald Burton
 Schoolfield, George C., “A Sense of Minority”, *A History of Finland’s Literature*
 Schoultz, Solveig von, *Heartwork*. Selected Short Stories, transl. Marlaine Delargy and Joan Tate
 Södergran, Edith, poems in *Ice Around Our Lips*
 Tikkanen, Henrik, *A Winter’s Day*, transl. Mary Sandbach
 Tikkanen, Märta, *Manrape*, transl. Alison Wein
 Westö, Kjell: Lang, transl. Ebba Segerberg
 (Most of the texts are to be found in a special course folder, available to the course participants.)

Comparative Religion

The teachers at the department of Comparative religion welcome English-speaking students to many of our courses. We provide a handful of lectured courses in English (even though most courses are of course given in Swedish). In addition to lectured courses, several courses are provided as self-study courses (see more below).

International students interested in completing courses in comparative religion are very welcome to contact the teachers at the department in order to plan their studies. There are many possibilities to combine lectured courses and self-study courses into an interesting whole!

Lectured courses in English:

Religious fundamentalism

117714.1

Intermediate level

5 credits

Lectured course

Offered: autumn 2014

Entry Requirements: Basic studies in comparative religion are recommended

Teachers: Nina Björkman and Maria Leppäkari

Aim: to increase the students’ understanding of how fundamentalism, radicalism, traditionalism and conservatism are expressed in current religious settings. The students will familiarize themselves with various theoretical perspectives, problematization of concepts and case studies on selected topics. The course is focused on the meaning and influence of

scriptural interpretations and traditions, religious leadership, religious rhetoric and praxis, and how these in turn shape the religious lives and identities of individuals and groups.

Sociology of religion I

117216.0

Basic level

5 credits

Lectured course

Offered: spring 2015

Teacher: Mika Lassander

Entry Requirements: None

Aim: to provide significant perspectives on religion in society. This includes basic knowledge about the sociology of religion, including the history of the discipline, definitions of religion and religiosity and central theories on the levels of individuals, groups and societies, and contemporary religious change. After the course the student should have an elementary understanding of research in the sociology of religion.

Literature: contact examiner

Religion and Gender

117701.2

Intermediate level

5 credits

Lectured course

Offered: spring 2015

Teachers: Nana Blomqvist and Peik Ingman

Entry requirements: Basic studies in comparative religion are recommended

Aim: to provide perspectives on how religion relates to identity, sexuality, gender, and power in different cultural settings. The focus is both on world religions and contemporary religious movements. Central perspectives and concepts of gender theory will in relation to religion and religious change be presented on this course. After completing this course the students will be able to analyze religious texts and images from a gender perspective and identify relevant gender theoretical issues in contemporary religious changes.

Examination: Students will regularly be required to hand in short reflective papers on the key concepts of the provided readings. Final essay.

Literature: contact examiners

Self-study courses in English:

Students who complete self-study courses will get individual supervision in English by the teachers. Usually, a written examination in some form, or papers/reviews, is included. In addition to the courses listed below, also other courses on both intermediate and advanced level can be completed as self-study courses. In some cases these require that the student has previous studies in comparative religion and religious studies.

Introduction to Comparative Religion

117010.0

5 credits

Basic level

Self-study course

Contact: Jan Svanberg

Aim: to provide basic knowledge in the field of comparative religion including central questions and concepts in the academic study of religions.

Literature: In consultation with examiner

ARTS

Hinduism and Buddhism

117003.0

5 credits

Basic level

Self-study course

Contact: Måns Broo

Aim: to provide basic knowledge of Buddhism and Hinduism in both historical and present forms.

Literature: In consultation with examiner

A completed course in Hinduism and Buddhism can be followed by a Special courses in both Hinduism and Buddhism and / or Yoga, Meditation and Tantric Bliss in South Asia and the West

Yoga, Meditation and Tantric Bliss in South Asia and the West

117712.2

5 credits

Basic and intermediate level

Self-study course

Lecturer: Måns Broo

Aim: to give an understanding of some of the South Asian religious or spiritual traditions that have reached Western shores since the end of the 19th century (e.g. Swami Vivekananda, Transcendental Meditation and the Hare Krishna movement). The main focus is be on the development and character of these traditions in their new environments.

Entry requirements: Introduction to Comparative and /or Religion and Hinduism and Buddhism completed, or comparable earlier studies

Literature: In consultation with examiner

Islam

117011.0

5 credits

Basic level

Self-study course

Contact: Peter Nynäs

Aim: to provide basic knowledge of Islam in both historical and present forms.

Literature: In consultation with examiner

A completed course in Islam can be followed by a Special course in Islam

Judaism and Christianity

117012.0

5 credits

Basic level

Self-study course

Contact: Måns Broo

Aim: to provide basic knowledge in Judaism and Christianity from a perspective of comparative religion, including their origins and roots, their sacred texts, and their historical development.

Literature: In consultation with examiner

Ancient religions of the Mediterranean and Middle East

117250.1

5 credits

Intermediate level

Self-study course

Contact: Måns Broo

Aim: to provide basic knowledge of ancient religions of the Mediterranean and Middle East from a perspective of history of religion.

Literature: In consultation with examiner

East Asian religions

5 credits

Intermediate level

Self-study course

Contact: Måns Broo

Aim: to provide basic knowledge of East Asian religions in China, Korea and Japan from a perspective of comparative religion.

Literature: In consultation with examiner

Nordic religions

117700.2

5 credits

Intermediate level

Self-study course

Contact: Jan Svanberg

Aim: to provide knowledge of old Nordic religious myths, rites and for instance Schamanism. The reading material also presents views on aspects of interpretation and method and intends to shed light on the ways ideologies can influence research strategies and awake interest in ancient Nordic religion.

Literature: In consultation with examiner

Psychology of Religion I

117216.0

5 credits

Intermediate level

Self-study course

Contact: Peter Nynäs

Aim: to introduce psychological perspectives and concepts in the study of religion with emphases on religious experiences, religious orientation and individual development of religiosity.

Literature: In consultation with examiner

Psychology of Religion II

117707.2

5 credits

Intermediate level

Self-study course

Contact: Peter Nynäs

Aim: to provide further psychological perspectives on religion such as religious development, attachment theory, coping theory and religion and health.

Prerequisites: Psychology of Religion I completed, or comparable earlier studies

Literature: In consultation with examiner

Anthropology of religion

117201.0

5 credits

Intermediate level

Self-study course

Contact: Jan Svanberg

Aim: to introduce anthropological perspectives and concepts in the study of religion.

Literature: In consultation with examiner

Religion and Ecology

117209.2

5 credits

Intermediate level

Self-study course

Contact: Peter Nynäs

Aim(s): to provide perspectives on ecological perspectives embedded in different religious traditions and on religious dimension of today's ecological ideologies and activism.

Prerequisites: Basic studies in comparative religion completed or comparable earlier studies

Literature: In consultation with examiner

Cultural encounters and interreligious dialogue

117706.2

5 credits

Intermediate level

Self-study course

Contact: Peter Nynäs

Aim: to provide relevant theoretical perspectives on intercultural encounters, interreligious dialogue and related conflicts from a humanistic perspective.

Literature: In consultation with examiner

Religious education

117705.2

5 credits

Intermediate level

Self-study course

Contact: Måns Broo

Aim: to provide relevant theoretical perspectives and knowledge on school religious education and multiculturalism, for example on factors influencing religious education in general, various traditions and practices etc.

Prerequisites: basic studies in comparative religion completed or comparable earlier studies

Literature: In consultation with examiner

History

A number of self-study courses are offered in addition to courses lectured in English. As self-study courses require the ability to work independently they are recommended to 3rd–4th year students.

Nordic History

110090.0

5 credits

Basic level

Lectured course

Offered: Autumn 2014 (Period 2)

Lecturer: Mats Wickström (mats.wickstrom@abo.fi)

Aim: During the course students will study the political, social and cultural history of "Norden" as a distinct European region, from the Viking Age to the 1990's. The purpose of the course is to reach an understanding of how history is reflected in contemporary Nordic society and to analyze the historical background of a common Nordic mentality. The lectures focus on identifying similarities as well as differences between Finland, Sweden, Denmark, Norway and Iceland – in history and today.

Contents: The course gives an overview of the central turning-points in the history of the Nordic region, e.g. the Viking expansion, Christianization, the Kalmar Union, the Reformation, the Swedish Great Power Era, the consequences of the Napoleonic Wars, nation-building in the 19th century, the making of the Nordic welfare state and the Nordic countries in and after the Second World War.

Learning outcomes: Students will be able to study and describe the central turning-points in the history of the Nordic region. Students will be able to study and recognize the similarities as well as differences between Finland, Sweden, Norway, Denmark and Iceland in the past and in the present. Students will be able to identify the historical backgrounds of

a common Nordic mentality and comprehend how historical developments are reflected in contemporary Nordic society.

Teaching methods: Lectures.

Entry requirements: None.

Target group: Everyone.

Form of assessment: Home exam.

Course literature:

Gustafsson, Harald, 'A state that failed? On the Union of Kalmar, Especially its Dissolution'. *Scandinavian Journal of History* 2006:3–4, pp. 205–220.

Helle, Knut (ed.), *The Cambridge History of Scandinavia. Volume I: Prehistory to 1520* (Cambridge 2003), pp. 105–159.
Nordstrom, Byron J., *Scandinavia since 1500* (Minneapolis 2000), pp. 19–357.

History of the Nordic Welfare States

111553.4

5 credits

Advanced level

Lectured course

Offered: Spring 2015 (Period 3)

Lecturers: MA Mats Wickström, MA Hanna Lindberg & MA Matias Kaihovirta

Contact: Mats Wickström (mats.wickstrom@abo.fi)

Aim and contents: This course gives a general introduction to the modern history of the Nordic welfare states with an emphasis on inclusionary and exclusionary political struggles and policies related to workers, immigrants, farmers, minority members, women and men. The course will explore the changing dynamics and limits of Nordic democracy and the Nordic model of Welfare throughout the 20th century. The aim of the course is to present the formation and construction of the modern Nordic societies and the Nordic model(s) in the age of modernization and migration. Focusing on how different groups have been constructed, subordinated, mobilized and sometimes emancipated in relation to ethnicity, class and gender, the course will develop an intersectional understanding of Nordic 20th century history.

Form of assessment: Students will complete an essay on a theme in connection to the course. The essays can be connected to an area of special interest for the student, or chosen from topics prepared by the lecturers.

Learning outcomes: Students will be able to critically discuss some of the central themes from the perspective of gender, class and ethnicity. Students will be able to discuss understandings of Nordic 20th century history from an intersectional perspective

Teaching methods: Lectures.

Entry requirements: Advanced course for students in history and/or the social sciences, optional for others with the required pre-knowledge or strong interest in Nordic welfare.

Target group: Year 3 or 4.

Course literature:

Mary Hilson, *The Nordic Model. Scandinavia since 1945*, Reaktion: London 2008.

The Nordic Model of Welfare. A Historical Reappraisal, eds. Niels Finn Christiansen, Klaus Petersen, Nils Edling & Per Haave, Copenhagen 2006.

Eugenics and the Welfare State. Sterilization Policy in Denmark, Sweden, Norway, and Finland, eds. Gunnar Broberg & Nils Roll-Hansen, Michigan State University Press: East Lansing 1996/2005.

Jenny Andersson, Mary Hilson, 'Images of Sweden and the Nordic Countries', *Scandinavian Journal of History* Vol. 34, Iss. 3, 2009.

Brochmann, Grete & Hagelund, Anniken (ed.) (2012). *Immigration Policy and the Scandinavian Welfare State 1945-2010*.

ARTS

Grete Brochmann, Anniken Hagelund, 'Migrants in the Scandinavian Welfare State: The emergence of a social policy problem', *Nordic Journal of Migration Research* (2011) Vol. 1, Iss. 1, pp: 13-24.

Being Human in Times of Climate Change

5 credits

Advanced level

Lectured course

Offered: Autumn 2014

Lecturer: Dr Stefan Norrgård

Course description: This course gives a general introduction to the changing climates in history. The preliminary aim of the course is to give the students an understanding of the history of the climates. Its relation and correlation to human history. Thereby presenting the rise and fall of civilisations, but also certain events in history, such as the climatically induced witch hunt (1500s) and trans-Atlantic slave trade (1700s). The course aims to give the students a good understanding of the basics in historical climatology and climatic reconstructions based on historical documents. Including an insight of climatic impact in history (direct and indirect impacts), but also the ability to understand how climate is portrayed, discussed and viewed in the media. The students will, after the course, have a better comprehension of climate's role in history and the climate change discourse.

Examination: Essay

Literature:

H. H. Lamb, *Climate, History and the Modern World* (London 1997), Wolfgang Behringer, *A Cultural History of Climate* (Cambridge 2010),

Michael H. Glantz, *Climate Affairs. A Primer* (Washington 2003), William F. Ruddiman, *Plows, Plagues & Petroleum. How Humans Took Control of Climate* (Princeton 2005),

Robert W. Kates et al. *Climate Impact Assessment* (Chichester 1985),

Mike Hulme, *Why We Disagree About Climate Change* (Cambridge 2009),

Caviedes, César N., *El Niño in History. Storming Through the Ages* (Gainesville 2001),

Brázdil, Rudolf et al., 'Historical Climatology in Europe State of the Art', *Climatic Change* (vol. 70, no 3:2005), pp. 363-430,

Pfister, Christian, 'The vulnerability of past societies to climatic variation: a new focus for historical climatology in the twenty-first century', *Climatic Change* (vol. 100, no 1:2010), pp. 25-31,

Pfister, Christian, 'Climatic Extremes, Recurrent Crises and Witch Hunts: Strategies of European Societies in Coping with Exogenous Shocks in the Late Sixteenth and Early Seventeenth Centuries', *The Medieval History Journal* (vol. 10, no 12:2007), pp. 337-1,

Johnson, Sherry, 'El Niño, Environmental Crisis and the Emergence of Alternative Markets in the Hispanic Caribbean, 1760s-70s', *The William and Mary Quarterly* (vol. LXII, no 3:2005), pp. 365-410

Brian Fagan, *Floods, Famines and Emperors* (New York 1990).

Environmental History

110550.1

10 credits

Intermediate level

Self-study course

Offered: Upon agreement

Contact: PhD Laura Hollsten

Aim: To introduce the field of Environmental History and some central questions within the subject.

Format: Literary studies under supervision of teacher

Prerequisites: Two years of studies in history recommended

Target audience: Year 3 or 4

Form of assessment: Paper, Examination

Course literature:

Simmons, I.G. *Environmental history: An introduction* (1993)

Arnold, D. *The Problem of Nature. Environment, Culture and European Expansion* (1996).

Crosby, A. *Germs, Seeds and Animal. Studies in Ecological History* (1994).

Glacken, C. *Traces on the Rhodian Shore. Nature and Culture in Western Thought from Ancient Times to the End of the Eighteenth Century* (1967).

Grove, R. *Green Imperialism* (1995).

Melosi, M. *Garbage in the Cities* (1981).

Ponting, C. *A Green History of the World* (1991).

Merchant, C. *Death of nature: Women, Ecology, and the Scientific Revolution* (1980).

Thomas, K. *Man and the natural World: Changing Attitudes in England 1500-1800* (1984).

Schama, S. *Landscape and Memory* (1995).

Worster, D. *Nature's Economy: A History of Ecological Ideas* (1977).

Global history

110254.2

10 credits

Intermediate level

Self-study course

Offered: Upon agreement

Contact: Professor Holger Weiss

Contents: The course highlights global interconnections, social transformations and spatio-temporal dimensions. The reading list introduces both historical and contemporary forms of globalization.

Prerequisites: Studies at the basic level

Form of assessment: Written examination based on literature (ca. 6 monographs) including:

J.L. Abu-Lughod (1989), *Before European Hegemony: The World System AD 1250-1350*

J. Diamond (1997), *Guns, Germs and Steel: The Fates of Human Societies*

A.G. Frank (1998), *Re-Orient: Global Economy in the Asian Age*

R. Robertson (2003), *The Three waves of Globalization. A History of a Developing Global Consciousness*

D. Landes (1998), *The Wealth and Poverty of Nations: Why some are so rich and some are so poor*

K. N. Chaudhuri (1990), *Asia Before Europe. Economy and Civilization of the Indian Ocean from the Rise of Islam to 1750*

K. Pomeranz (2000), *The great divergence: China, Europe and the making of the modern world economy*

A.G. Hopkins (ed., 2002), *Globalization in world history*

Early Modern Nordic History

111554.1

10 credits

Advanced level

Self-study course

Offered: Upon agreement

Contact: Prof Nils Erik Villstrand, nils.villstrand@abo.fi

Contents: The course focuses on problems concerning the power state/military state, political culture, social control and integrative processes.

Prerequisites: studies at the intermediate level

Form of assessment: examination

Course literature:

Roberts, Michael: *The Swedish Imperial Experience 1560-*

1718 (1979)

Roberts, Michael: *The Age of Liberty: Sweden 1719-1772* (1986)

Jespersen, L. (ed.): *A Revolution from Above? The Power State of 16th and 17th Century Scandinavia* (2000)

Österberg E. and Sogner, S. (eds.): *People Meet the Law: Control and conflict handling in the courts: The Nordic Countries in the Post-Reformation and Pre-Industrial period* (2000)

Gustafsson H.: *Political Interaction in the old Regime: Central Power and Local Society in the Eighteenth-Century Nordic States* (1994)

Eliassen, F-E, et al (eds.): *Regional Integration in Early Modern Scandinavia* (2001). Introduction and 8 essays.

Musicology

The Department of Musicology offers several self-study courses for students who wish to study in English. Students may, upon agreement, write essays and/or assignments in English tutored and supervised by the teachers. International students with some knowledge in Swedish can also participate in seminars. All students interested in completing courses in musicology should contact the professor of musicology in order to plan their studies.

A Cultural History of Sound

114285.1

5 credits

Level: Intermediate and advanced

Offered: Spring 2015 (period IV, 8 lectures)

Lecturer: Professor Bruce Johnson (Macquarie Univ., Univ. of Glasgow, Univ. of Turku)

Contact: Johannes Brusila, Musicology

Prerequisites: No prior specialist knowledge of the field will be expected. It will therefore begin at a basic level, working forward to offer suggestions for more advanced research. The course can therefore be included in both intermediate and advanced studies.

Aim: The course offers a general introduction to the cultural history of sound and the methodologies for its study.

Contents: Why are ancient cave paintings exactly placed where they are? Why does Hamlet wait so long for revenge? Why are cathedrals so large and with such reverberation, but a dance club is so much smaller and with no echo? Why is a Gregorian chant so slow, but Metal is so fast? What form of pollution in the European Union is causing up to 35 billion euros per year? What is the most ancient way of marking territory? What is the most frequent trigger for community conflict? What is one of the most effective ways of controlling the occupation of public space?

These are examples of a range of historical and contemporary questions that traditional cultural and historical analysis cannot answer. The reason is that these disciplines are built on an ideology that is deeply visual – try to rewrite a page of a cultural studies book in English without making any reference to vision, and you begin to understand. This course demonstrates how much differently we understand our own culture and those of the past if we ‘listen’ instead of ‘look’.

This course explores the cultural history of sound. It will discuss the physiology and phenomenology of sounding and hearing; it will review the emerging literature on the cultural study of sound and hearing, with particular attention to the very significant role played in this development by Finnish scholars, and we may ask ourselves what this says about Finnish language and culture.

The course will also provide a brief overview of sound in

cultural history, ranging from the pre-modern, through the transition to modern, the emergence of an ‘aural renaissance’ throughout the nineteenth century with the development of sonic technologies. It will survey the role and function of sound in the contemporary world and its role in the formation of culture, including in power relations, identities, glocalisation, migrations, territories, communities and conflicts, and sustainable development.

Throughout the course illustrations and case studies will be drawn from the music, media, theatre, film, sound technologies and literature, with reference to a wide range of cultural issues.

Learning outcomes: Having completed the course, the students will have an understanding of the cultural history of sound and the methodologies for its study.

Teaching methods: This is a lectured course.

Entry requirements: Presentation and assessment for the course will be in English. A good level of English comprehension is therefore necessary.

Target group: Students with a general interest in cultural studies.

Form of assessment: Assessment will be by lecture diaries. In their journals, students will have the opportunity to write about their own areas of interest.

Literature:

Schafer, R. Murray (1980) *The Tuning of the World*. Philadelphia: Univ. of Pennsylvania press.

Michael Bull and Les Back (Eds.) (2003) *The Auditory Culture Reader*. Oxford and New York: Berg

Järviuoma, Helmi; Kytö, Meri; Truax, Barry; Uimonen, Heikki; Vikman, Noora (Eds.) (2009) *Acoustic Environments in Change*.

Tampere : TAMK University of Applied Sciences.

Nordic Ethnology

Ethnology studies people and cultures – that is – man as a cultural being. At Åbo Akademi University we are especially interested in culture as it appears in everyday Finnish life, but we also have an interest in the other Nordic countries and culture in a broader European sense. Ethnology concerns itself mostly with social, material and mental traits of culture. Cultural patterns and cultural variations are often investigated by a combination of contemporary analysis and historical reconstruction while cultural confrontation and subcultures can be seen as dynamic approaches.

Due to its great interest in material culture and the issues of conservation, Ethnology has a strong connection to Museology. The emphasis on social factors and meaning ties Ethnology to Social Sciences. The interest in tradition and the making of tradition is something that Ethnology has in common with Folkloristics. The historical approach also makes need for insight in history and its methods.

The staff at the Department has weekly office hours when students can attend study-counseling (at other times by appointment). For international students supervision is also available in English or German. The department cannot offer any lectured courses in English this year. International students can participate in ethnological fieldwork courses, documenting and interviewing also in English. On the undergraduate/graduate level of study the seminar papers can be written in English/German and the seminars can partly be held in English. Supervision will be given in both languages. The list of the courses that can be assessed in English as self-study courses are as follows:

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Nordic Culture

115002.0

5 credits

Basic level

Self-study course

Contact: Niklas Huldén

Prerequisites: None

Aim and content: The aim of the course is to give basic knowledge of people's everyday life, cultural patterns and individual cultural expressions in Nordic countries and in the Nordic communities concentrating in the national cultures in Sweden, Norway, Denmark, Iceland and Faroe Islands in 19th and 20th centuries.

Learning outcomes: Knowledge of cultural phenomena and characteristics in connection with the past and the present in Nordic countries. Understanding for Nordic communities and their distinctive characters as well as the impact of the Modernity on them.

Literature: Contact teacher

Home and Family

115265.1

5 credits

Undergraduate level

Self-study course

Contact: Anna-Maria Åström

Prerequisites: studies at the intermediate level (students in Ethnology from 2nd year up)

Aim and content: To give an overview on concepts regarding home and family in contemporary times as well as in peasant societies. The students read literature and write analysis of home and family and the meaning of family from material, social and cultural aspects.

Literature: Contact teacher

Cultural Ecology

115507.3

5 credits

Graduate level

Self-study course

Contact: Niklas Huldén

Prerequisites: Completed undergraduate-level studies in Ethnology

Aim and content: Knowledge of the relationship between human beings and the environment in different times in different surroundings. Traditional and historical patterns in exploiting natural resources during different times concentrating on some specific types of nature and areas. The processes of exploiting resources from the anthropological and historical perspectives.

Literature: Contact teacher

Communication and Contact

115513.1

5 credits

Graduate level

Self-study course

Contact: Sonja Hagelstam

Prerequisites: completed undergraduate-level studies in Ethnology

Aim and content: The aim of the course is to provide knowledge of the impact that different media and communication technologies have on the every-day life of people, on social relationships and cultural practices. The course opens up perspectives on the relationships between technology and culture. The focus is on new media aimed for communication

between people that also observe communication in the historical perspective.

Literature: Contact teacher

Ethnicity and Identifications

115511.1

5 credits

Graduate level

Self-study course

Contact: Anna-Maria Åström

Prerequisites: completed undergraduate-level studies in Ethnology

Aim and content: The aim of the course is to provide information on questions regarding ethnicity, ethnical processes and cultural encounters. Theoretical knowledge of ethnicity with Northern Norwegian, Swedish, Finland-Swedish examples, minority perspective, and the problems concerning multilingualism.

Learning outcomes: analytical understanding of ethnicity processes, ethnic processes and cultural encounters.

Literature: Contact teacher

Urban Spaces and Rituals

115255.3

5 credits

Undergraduate level

Self-study course

Contact: Anna-Maria Åström

Prerequisites: completed basic-level studies in Ethnology

Aim and content: The course deals with cities, urban cultures and their forms of expression. The course provides knowledge of international and Finnish ethnological and cultural scientific research of the cities, information of the culture of cities and rituals connected with urban spaces.

Literature: Contact teacher.

Historical Anthropology; a Classic Approach

115718.1

8 credits

Basic – Advanced level

Self-study course

Contact: Anna-Maria Åström

Prerequisites: None, though previous studies in Ethnology are recommended.

Aim and content: To give an overview on historical anthropology/micro history with emphasis on the theoretical, classical and interdisciplinary writings. Literature studies from theoretical and classical perspectives regarding different times and phenomena in European history.

Learning outcomes: Ability to combine the historical and anthropological ways of thinking, an insight into classical and contemporary historical anthropological studies, also concerning questions about gender and marginality. Ability to see historical associations from the anthropological perspective with emphasis on emotions and practices.

Literature: Contact teacher.

Culture and Technology

115706.1

3 credits

Basic-Advanced level

Self-study course

Contact: Niklas Huldén

Prerequisites: None, though previous studies in Ethnology are recommended.

Aim and content: The aim of the course is to provide basic

knowledge of the relationship between technology, culture and society. The course gives an insight into how Ethnology and the Human Sciences consider technique and technology. Learning outcomes: Ability to analyze the role of technology in the modern society.

Literature: Contact teacher.

Ethnology and Tourism

115709.1

7 credits

Undergraduate level

Self-study course

Contact: Sanna Lillbroända-Annala

Prerequisites: completed basic-level studies in Ethnology

Aim and content: The course is an introductory course in research of tourism considering cultural encounters and the overall existence of tourists. The course includes theoretical and empirical studies and written assignments on tourism as a phenomenon.

Learning outcomes: insight into the social patterns of tourism, the role of a tourist, and the cultural encounters between tourists and local people. Ethnological view on tourism as a phenomenon and the position of Ethnology in it.

Literature: Contact teacher.

Maritime Anthropology

115710.1

4 credits

Undergraduate level

Self-study course

Teacher/Contact: Niklas Huldén

Prerequisites: completed basic-level studies in Ethnology

Aim and content: The self-study course provides an insight into maritime industries and environments, into the variations in the societies and navigation, understanding and knowledge of the distinctive characters in maritime culture.

Literature: Contact teacher.

Cultural Anthropology

115254.2

5 credits

Undergraduate level

Self-study course

Contact: Anna-Maria Åström

Prerequisites: None

Aim and content: To deepen the knowledge of anthropology especially in the field of theory, concept and method as well as a cultural section by own choice. A wide range of literature on anthropological research methods, reading of classical monographs by own choice as well as an introduction to either the Muslim world, South-America or Finnish Lapland or Karelia. Learning outcomes: Knowledge of anthropological thinking through insight into anthropological theory- and concept making, fieldwork and research results from three cultural fields. Ability to present an overview on the anthropological development and on contemporary views as well as an analytical ability to fork out individual phenomena like giving presents, gender- and family relations, religion and "total achievements".

Literature: Contact teacher.

Social Anthropology

115258.1

5 credits

Undergraduate level

Self-study course

Contact: Anna-Maria Åström

Prerequisites: None

Aim and content: to deepen the knowledge of social anthropology through choice of theoretical perspectives and empirical special fields. Anthropological theory with examples in classical literature as well as Finnish early anthropology with literature by choice (eg. Westermarck, Granqvist and Karsten) or urban anthropology.

Learning outcomes: Knowledge of anthropological historical turning points as well as different anthropological research directions. Insights of social anthropological theory thorough study of famous work from three fields: Islam, the world of Westermarckians as well as urban milieus.

Course literature: Contact teacher.

European Cultural History

115515.1

5 credits

Intermediate/advanced level

Self-study course

Contact: Anna-Maria Åström

Prerequisites: studies at intermediate/advanced level (students in Ethnology from 3rd year up)

Aim and content: impacts in European cultural history during different periods of time in various regions of Europe.

Learning outcomes: Advanced knowledge of specific characters in European cultural history and of individual phenomena in various countries and during different time periods. Special insight of different traditions of conceptions and behavioral patterns of society groups versus popular patterns of life in different countries.

Course literature: Contact teacher.

Contemporary Ethnology and Youth Culture

115510.1

5 credits

Advanced level

Self-study course

Contact: Anna-Maria Åström

Prerequisites: for students at an advanced level

Aim and content: Advanced insights of youth culture and sub cultures in light of new theories, different expressions for youth culture and late modern patterns for leisure time focusing on the body. Analytical understanding of the individual's position in late modernity as well as knowledge of ethnological conceptions of modern culture.

Learning outcomes: Ability to make and analyze observations of youth cultures and sub cultures as well as insight of ethnological apprehension of modern culture and patterns of leisure time focusing on the body. Analytical understanding of the individual's position in late modernity.

Course literature: Contact teacher.

Cultural Heritage and Historical Uses

115514.1

5 credits

Advanced level

Self-study course

Contact: Anna-Maria Åström

Prerequisites: for students at an advanced level

Aim and content: To be able to put the cultural heritage in its proper context, i.e. see its cultural content in relations to history and present times. With that, information is given about occupational relevance; how processes of cultural heritage work proceed, who lies behind them and what are their intentions, i.e. a deconstruction of the cultural heritage processes.

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Learning outcomes: Knowledge of what the concepts on cultural heritage and historical uses signify and how such phenomena are used in today's world, especially in the field of tourism. A particular ability to analyze cultural heritage processes as well as looking at how these are connected to political and economic decision-making. A particular knowledge of the phases in politics concerning cultural heritage in Finnish wooden towns and different applications in cultural heritage milieus and museums.

Course literature: Contact teacher.

Ethnological Textile Studies

115707.1

7 credits

Intermediate/ advanced level

Self-study course

Contact: Anna-Maria Åström

Prerequisites: for students at an intermediate/advanced level
Aim and content: The aim of the course is to give basic knowledge of textile studies in Finnish and Nordic perspectives. Literature studies, analysis and presentations of the content and structure of course diaries. The reading course gives an insight into the history of textiles, popular dress-usage, textile techniques and textile variations.

Learning outcomes: Ability to give an account of the history of textiles in a wide perspective in regard of technics and material as well as variations in different regions. A deeper knowledge about the popular dress-usage, fashion styles and textile usage in general. In addition to this an ability to account for the latest development in textile ethnology and fashion science.
Course literature: Contact teacher.

Ethnological Food Research

115708.1

7 credits

Intermediate/ advanced level

Self-study course

Contact: Anna-Maria Åström

Prerequisites: for students at an intermediate/advanced level
Aim and content: A deeper knowledge of popular food, dinner custom and the food cultures' changes with special emphasis on Finland-Swedish and Finnish circumstances. Knowledge of the recipes' importance for food economizing, insights into variations in the popular diet and the food culture's development as well as the food's symbolic meaning. Reading course, examination through essays.

Literature: Contact teacher.

Consumption, Things and Identities

115266.1

5 credits

Intermediate level

Self-study course

Contact: Anna-Maria Åström

Prerequisites: for students at an intermediate level

Aim and content: Understanding of the consumer society's dynamics and its effect on identity, a deeper knowledge of consumption, housing and the culture of objects in proportion to identity.

Learning outcomes: Ability to explain and analytically contemplate how consumption, culture of objects and housing are included in identity building in various Nordic and international milieus. Insight into modern consumption theories, theories on modern identity formation and the development of ethnological research on objects.

Literature: Contact teacher.

Nordic Folkloristics

Folklore studies entail folk poetry, narratives on everyday experience, folk beliefs and folk customs, both historical and present day. They comprise modern popular culture as well. It is possible to conduct studies of Nordic folkloristics from bachelor's to doctoral level. The only courses lectured in English are, Swedish in Finland and Comics – interdisciplinary and cultural perspectives. On the exchange students' initiative one course per year may also be arranged in the form of a study or reading circle. There is no other regular teaching in English. However, almost every year there are guest teachers from abroad who lecture in English. It is also possible to take reading courses based on self-studies. Supervision is given in English. Please contact Professor Ulrika Wolf-Knuts (uwolf@abo.fi) or Docent Lena Marander-Eklund (lmarande@abo.fi) for supervision and to customize courses according to your own need. Students from abroad generally have their own curricula and their own study plan to follow under the professor's supervision.

Lectured courses:

English folklore

5 credits

Intermediate level

Lectures, fieldwork, seminar

Offered: October – December 2014

Lecturers: PhD Jonathan Roper, MA Jakob Löfgren

Contact person: MA Jakob Löfgren

Form of assessment: Lectures, fieldwork, oral presentation and seminar

Aim(s): The course aims to familiarize the student with English folklore and English folklore studies. This is done by means of lectures and a voluntary fieldwork to England in November. The findings are to be presented in an open seminar held at Åbo Akademi in December 2014.

Learning Outcome: Having completed the course the student will have a rudimentary understanding of English folklore and English folklore studies. The course also hones practical fieldwork skills and academic seminar work.

Transferable skills: The course develops the students' critical and reflexive thinking, advances fieldstudy and organizational skills and improves the students' project management abilities.

Kalevala and Finnish Folklore Studies

5 credits

Intermediate/Advanced level

Lectured course

Offered: January – March 2015

Lecturers: Eerika Koskinen-Koivisto

Contact person: Lena Marander-Eklund

Form of assessment: Lectures, interactive study group, readings and discussions. Written assignments based on lectures, discussions and readings.

Aim(s): The Kalevala, Finnish national epics, was compiled by Elias Lönnrot in 1935. The edition known and read in our times was published in 1849. The Kalevala consists of poems collected from the people of Eastern Part of Finland and Russian Karelia. It gave inspiration for national awakening of Finland and national romanticism. Today, it still continues to be a source of inspiration for artist and academic scholars of folklore studies. The course familiarizes with folklore, the Kalevala, Kalevala metric poetry and early studies of Finnish Folklore.

Learning Outcome: Having completed the course the student will have a further understanding of the Finnish national epos
 Transferable skills: The course develops the students critical and observational thinking, timemanagment and tutorial study skills aswell as furthers skills in textual analysis.

Folklore studies reading and study circle in English

5 credits

Intermediate level

Study circle

Offered: Spring 2015

Lecturers: MA Jakob Löfgren

Contact person: MA Jakob Löfgren

Form of assessment: Literature oral presentation or essay

Aim(s): On the exchange students' initiative one course per year may be arranged in the form of a study or reading circle.

The department offers to arrange any of the intermediate courses on the curriculum in the form of a study or reading circle in English. This is done entirely on the request of the students. The department offers ten hours of supervised discussion as a form of examination for any course in folkloristics.

Learning Outcome:

The student should be able to amongst themselves organize and ask the head of the department for a study circle on a course of their own choice. They should also have attended the study circle actively.

Transferable skills:

The course develops the students critical and observational thinking, timemanagment and tutorial study skills; furthers skills in information management and presentation and advances the student organizational skills.

Basic level (self-study):

Introduction to folklore studies

116000.0

5 credits

Basic level, no prerequisites

Self-study course

Contact: Lena Marander-Eklund

Aim: In this course the student will learn what folklore is, and look at expressions of folklore in today's world as well as how it was expressed in the past. Central terminology, material and methods in the field of folkloristics will be introduced.

The history of folkloristics

116001.0

5 credits

Basic level, no prerequisites

Self-study course

Contact: Lena Marander-Eklund

Aim(s): An introduction to the history of Folklore Studies in Europe and the Nordic countries. Motivations for collecting and disseminating folklore material will be discussed. The course also offers a presentation of older folkloristic theories and methods.

To discover and understand everyday life

116002.0

5 credits

Basic level, no prerequisites

Self-study course

Contact: Lena Marander-Eklund

Aim(s): The student will be encouraged to view her/his everyday life with new eyes. There is much to discover and

understand in one's own culture once one knows what to look for. The aim of the course is to teach the student to view the world as a folklorist.

Verbal folklore

116004.0

5 credits

Basic level, no prerequisites

Self-study course

Contact: Lena Marander-Eklund

Aim(s): You will learn to analyse and study different types of folkloristic texts. You will also learn about different folkloristic genres and what characterises them. We will analyse fairy tales, legends, jokes, divinations, folksongs, and TV-shows among other things.

The ritual year and festivities of life

116210.0

5 credits

Basic level, no prerequisites

Self-study course

Contact: Lena Marander-Eklund

Aim(s): The focus of this course lies on the content of festive practices, both those of life and those of the year. During this course you will be acquainted to different kinds of traditional festivities as well as how these can be studied from a folkloristic perspective.

Intermediate level (self-study):

Folkloristic analytical methods

116201.0

5 credits

Intermediate level, previous studies required

Self-study course

Contact: Lena Marander-Eklund

Aim(s): When analysing folklore, knowledge of different research methodologies is essential. Analytical methods, both those previously used by folklorists and those presently preferred by researchers, are introduced in this course.

Beliefs and rituals

116200.0

5 credits

Intermediate level, previous studies required

Self-study course

Contact: Lena Marander-Eklund

Aim(s): The field of study of this course deals with varying conceptions of the supernatural as well as rituals of everyday life. The student will be familiarized with the methods used in the study of folk belief as well as in the research of rituals. The course deals with older and newer popular conceptions, such as supernatural beings, folk medicine and medical anthropology, modern folk religion and New Age.

Tradition in a changing world

116202.0

5 credits

Intermediate level, previous studies required

Self-study course

Contact: Lena Marander-Eklund

Aim(s): The aim of the course is to demonstrate ways how the relationship between tradition and society can be studied, as well as illustrating how society is made visible in present day folklore and folkloristic research. Concepts such as culture, tradition and environment are problematized and discussed.

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Ethnographic field methods

116205.0

5 credits

Intermediate level, previous studies required

Self-study course

Contact: Lena Marander-Eklund

Aim(s): 1) to learn to identify different kinds of ethnographic materials

2) to create folklore sources through different methods, such as interviews, participant observation and questionnaires

3) to reflect over the creation of sources as a result of fieldwork and the role of the researcher in this process

BA seminars (folkloristics as main subject)

116990.0

10 credits

Seminars in Swedish OR self-study under supervision of assigned member of staff

Contact: Lena Marander-Eklund

Intermediate level, previous studies required

Aim(s): 1) learning what characterizes scholarly writing

2) learning information retrieval

3) mastering the basics for how to write an academic thesis

4) formulating a problem, handling sources and applying scholarly theories in an academic context

The student writes a BA thesis concerning a folkloristic topic of choice during this course.

Preparatory seminars (folkloristics as minor subject)

116204.0

5 credits

Intermediate level, previous studies required

Seminars in Swedish OR self-study under supervision of assigned member of staff

Contact: Lena Marander-Eklund

Aim(s): 1) learning what characterizes scholarly writing

2) learning information retrieval

3) mastering the basics for how to write an academic thesis

4) formulating a problem, handling sources and applying scholarly theories in an academic context

The student writes a scholarly essay concerning a folkloristic topic of choice during this course.

Optional courses (self-study):

The body and health

116721.1

5 credits

Intermediate/Advanced level

Self-study course

Contact: Lena Marander-Eklund

Aim(s): The course deals with how the view of the body and health has changed throughout history. What does it mean to be healthy/ill, and what ideals of health and wellbeing prevail in present day society?

Classical folklore

116728.1

5 credits

Intermediate/Advanced level

Self-study course

Contact: Lena Marander-Eklund

Aim(s): The course gives an introduction to the folklore of classical antiquity with emphasis on folklore as social and cultural history. The focus rests on folklore found also in later

day tradition, such as narratives of werewolves, witches and ghosts. Traditions such as anecdotes and joke-telling will also be featured.

Children's folklore and minor genres

116722.2

5 credits

Intermediate/Advanced level

Self-study course

Contact: Lena Marander-Eklund

Aim(s): The student investigates and is familiarized with children's folklore and minor genres such as riddles, proverbs, traditional sayings, jokes and swearwords. Form, function and content are thoroughly studied, but context is also given consideration.

Cultural minorities and folklore

116707.1

5 credits

Intermediate/Advanced level

Self-study course

Contact: Lena Marander-Eklund

Aim(s): The course focuses on the importance of folklore for ethnic groups, and in what ways folklore appears in discourses regarding minorities and identity.

Cultural values today and folklore

116708.1

5 credits

Intermediate/Advanced level

Self-study course

Contact: Lena Marander-Eklund

Aim(s): This course studies folklore and values in the society of today. The student investigates how our values and norms rest upon constantly repeated notions and ideas.

Discourse analysis and narratology

116719.1

5 credits

Intermediate/Advanced level

Self-study course

Contact: Lena Marander-Eklund

Aim(s): The aim of the course is to demonstrate how narratological methods can be employed in the analysis of folklore texts and interview material.

European folklore

116711.1

5 credits

Intermediate/Advanced level

Self-study course

Contact: Lena Marander-Eklund

Aim(s): The course is an introduction to European folklore, based on the participating international students' own experiences of rituals connected to customs concerning celebrations in life, such as weddings, baptisms, funerals, graduation, birthdays etc. The students learn how to view their own culture with the eyes of a stranger, how to produce course material, and how to present their findings to an audience.

Folk song, folk dance and folk music

116701.2

5 credits

Intermediate/Advanced level

Self-study course

Contact: Lena Marander-Eklund

Aim(s): The course introduces traditional song and ballad research, primarily in the Nordic countries as well as traditional instrumental music and traditional dance. Also folkloristic research conducted within this field during varying times is introduced.

Folk medicine and medical anthropology

116709.2

5 credits

Intermediate/Advanced level

Self-study course

Contact: Lena Marander-Eklund

Aim(s): In this course popular medicine, both past and present, is studied. The course introduces concepts both from the discipline of folkloritics and from that of medical anthropology.

Folk tales

116700.1

5 credits

Intermediate/Advanced level

Self-study course

Contact: Lena Marander-Eklund

Aim(s): The course looks at the folk tale, its theories and function, as well as its connection to literature, pedagogy and psychology.

Folklore and gender

116723.1

5 credits

Intermediate/Advanced level

Self-study course

Contact: Lena Marander-Eklund

Aim(s): This course focuses on folklore and gender issues. The construction of sex/gender in folkloristic materials as well as the relationship between folkloristics and gender studies are studied.

Folklore and literature

116713.1

5 credits

Intermediate/Advanced level

Self-study course

Contact: Lena Marander-Eklund

Aim(s): The relationship between folklore and literature, such as common motives and structures, will be studied.

Folklore and mass media

116714.1

5 credits

Intermediate/Advanced level

Self-study course

Contact: Lena Marander-Eklund

Aim(s): Folklore and its relation to mass media are studied in this course. The course aims to demonstrate how folklore appears and can be used in mass media.

Folkloristic fieldwork

116715.1

5 credits

Intermediate/Advanced level

Self-study course

Contact: Lena Marander-Eklund

Aim(s): The course gives a multifaceted picture of folkloristic fieldwork, i.e. how folklorists create their research materials and sources.

Myths and epics

116704.1

5 credits

Intermediate/Advanced level

Self-study course

Contact: Lena Marander-Eklund

Aim(s): The course gives an introduction to myths and epics, and their significance in different cultural contexts.

Non-European folklore

116712.1

5 credits

Intermediate/Advanced level

Self-study course

Contact: Lena Marander-Eklund

Aim(s): This course familiarizes the student with non-European folklore. The student decides himself which geographical area he will study.

Norse mythology

116732.1

5 credits

Intermediate/Advanced level

Self-study course

Contact: Lena Marander-Eklund

Aim(s): The course gives an introduction to Old Norse religion from the Stone Ages to the Viking Age. Sources to our knowledge about ancient religion are also introduced.

Popular beliefs

116717.2

5 credits

Intermediate/Advanced level

Self-study course

Contact: Lena Marander-Eklund

Aim(s): The course gives a thorough introduction to folk belief and popular religion. Theoretical works as well as applied research dealing with these themes will be studied.

Research history

116726.1

5 credits

Intermediate/Advanced level

Self-study course

Contact: Lena Marander-Eklund

Aim(s): The course describes the origins of Folkloristics and its development as an academic discipline.

Philosophy

Philosophy is the oldest of all academic disciplines. It has played a crucial role in the history of Western culture. It has influenced, and in turn been influenced by, the development of scientific, religious, artistic and political thought. Philosophical dialogue often concerns problems such as the nature and possibility of knowledge, the human mind and its relation to language, society, culture, good and evil.

The Department of Philosophy at Åbo Akademi University has a particular interest in questions relating to the social sciences and the humanities. Also ethics and the philosophy of mind have a central place in the curriculum. The department has a solid tradition of research in the work of Ludwig Wittgenstein.

The research seminars are conducted either in Swedish or in English as the case may be. The meetings are open to anyone

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interested. Please check the programme at the Philosophy home page at www.abo.fi/student/forskarseminariumfilosofi.

Students may, upon agreement, write essays and/or assignments in English (and to some extent, in German and French) for a number of philosophy courses (see the Philosophy home page). The essays and assignments for the obligatory philosophy courses for postgraduates at the Faculty of Humanities may always be written in English as well as in a number of other European languages.

Students are advised to check the available Philosophy courses at the University of Turku, as studies at both universities may be combined according to a bilateral agreement of cooperation.

The staff at the Department has weekly office hours when the students are welcome to attend study-counseling (at other times by appointment).

Individual Study, Philosophy

Credits: varies

Self-study course

Offered: upon agreement

Contact: Martin Gustafsson

Prerequisites: Subject to agreement with the teacher

Format: subject to agreement

Aim & contents: The course may deal with some central area of philosophy, to be agreed between the teacher and the student. Most courses currently available in Swedish at the Philosophy department may also be done in the form of essays and assignments. (Most notably, Introduction to Philosophy, Logic and (normally) seminars will not be available in this format.) The student will meet with the lecturer to set the course literature and deadlines, to discuss the work and to choose an essay topic. The teacher will return the essay and (or assignment and give comments on the work.

Course literature: To be set individually by agreement.

Languages:

English Language and Literature

The English department is happy to welcome exchange students to take part in the courses offered, providing that their level of English is sufficiently high (e.g. B2/C1 in CEFR). Most courses that are open to exchange students are on the MA (advanced) level, which means that students wishing to take part in those courses are normally required to have at least 60 credits (ECTS) of English at university level. Some courses are open to BA (intermediate) level students, provided that they have completed 25 credits (ECTS) of English at university level. In unclear cases students may also be asked to take a language test. Lectured courses require a minimum number of students. They cannot be automatically transformed into self-study courses.

BA (intermediate) level

20th Century Novel

104154.1

5 credits

BA (intermediate) level, please see prerequisites

Self-study course

Offered: Autumn 2014

Lecturer: Stuart McWilliams

Contact: engelska@abo.fi

Aim: To help students develop their skills in the independent study of the novel as a genre and a phenomenon throughout the English-speaking world of the twentieth century; to enable students to relate their reading of individual novels to major theories of the novel and evaluate these theories in the light of their reading of the novels.

Contents: Selection and reading of three to five novels from a list supplied by the teacher; independent work researching and writing a paper on these novels answering a question supplied by the teacher, to include the reading of a range of secondary works on the novels in question and on the theory of the novel more generally

Mode of study: Self-study course

Prerequisites: 25 credits (ECTS) of English at university level

Target audience: BA-level students of English language and literature who have completed at least one year's university study of the subject including general introductory courses in literary studies.

Form of assessment: A 2-hour written examination covering all the novels read by the student; and one 8-page essay (3000 words).

Course literature: Three to five twentieth-century novels in English chosen from a long list supplied by the teacher; readings in the theory of the novel as directed by the teacher.

Applied Linguistics

5 credits

BA level, please see prerequisites

Lectured course + study circle

Offered: Spring 2015

Lecturer: Signe-Anita Lindgrén

Contact: engelska@abo.fi

Aim: to acquaint students with a selection of key issues and concepts in applied linguistics relevant for foreign language learning and future foreign language teachers, to acquaint students with a selection of the main approaches in psycholinguistics relevant for foreign language learning and future foreign language teachers, to introduce students to concepts and terms necessary for the understanding of the fields, to deepen students' knowledge of a top

ics of their own choice within the framework of the course, to help students reflect over issues in the fields and demonstrate their understanding of them, to develop the academic skills necessary for the satisfactory completion of the course work.

Contents: An introduction to a selection of main issues in applied linguistics and psycholinguistic processes of foreign language learning, basic concepts and terms in the fields; the students will be encouraged to develop an interests of their own within the framework of the course, e. g. focusing on vocabulary learning, memory functions, lexical errors

Mode of study: Seminars and study circles, full attendance required in all seminar and study circle meetings

Prerequisites: 25 credits (ECTS) of English at university level.

Target audience: BA-level students of English language and literature, (esp. teacher's line); other students may be accepted if there are available spaces.

Form of assessment: a series of assignments compiled in a study journal, a 15-minute group multimedia presentation, weekly readings and tasks for preparation and post processing, adequate preparation for and active participation in classes and study circle meetings, a 30-min quiz on key concepts and terminology

Course literature: Course materials may include books and articles on applied linguistics, second language acquisition, and psycholinguistics and relevant linguistic frameworks, supplementary course materials, recordings, video and web-based materials, corpus data, other material, and standard reference works. A reading list will be issued.

Being British CANCELLED

104150.1

5 credits

BA (intermediate) level, please see prerequisites

Lectured course

Offered: Spring 2015

Lecturer: Martin Gill

Contact: engelska@abo.fi

Aim: To gain an insight into the nature and diversity of British identities, and their implications, from a variety of internal and external perspectives; to develop a critical awareness of relevant social, cultural and political issues and concepts; to complement and extend the work done in the first year Contemporary Englishes course.

Contents: Discussion of the relevant social and historical background; an examination of a range of regional, cultural and ethnic identities in Britain and their relations with one another and with the centre; a critical evaluation of ideas / stereotypes of Britishness.

Mode of study: Weekly seminars; independent study (individually and in groups); full attendance required in all seminar meetings.

Prerequisites: 25 credits (ECTS) of English at university level.

Target audience: BA-level students of English language and literature.

Form of assessment: One essay (approximately 3000 words or 7-8 pages); one 15-minute presentation; an oral examination in doubtful cases; and adequate preparation for and active participation in class.

Course literature: May include books and scholarly articles on topics in cultural and social history; literary texts; recordings, video and web-based material; standard reference works. A reading list will be issued.

Shakespeare I

104421.2

5 credits

BA (intermediate) level, please see prerequisites

Lectured course

Offered: Spring 2015

Lecturer: Stuart McWilliams

Contact: engelska@abo.fi

Aim: To deepen students' understanding of the study of Shakespeare and of the theatre and drama more generally in his era; to engage their interest in Shakespeare studies; to develop their appreciation of the relationship between text and performance; help them develop their critical intelligence through the evaluation of different opinions and schools of opinion about the play; enable students to become informed readers of the language of Shakespeare's plays.

Contents: An overview of contexts for the study of Shakespeare including the theatre in Shakespeare's London and the history of comedy and tragedy as dramatic genres; detailed reading of the texts of the two plays; viewing of scenes from productions of the plays.

Mode of study: Seminars; full attendance required in all seminar meetings

Prerequisites: 25 credits (ECTS) of English at university level

Target audience: BA-level students of English language and

literature who have completed at least one year's university study of the subject including general introductory courses in literary studies.

Form of assessment: One 2-page written assignment, one 10-page essay (4000 words), and adequate preparation (readings and tasks) for and active preparation in seminars.

Course literature: Two plays by Shakespeare as directed, together with secondary literature on those plays, on Shakespearean drama more generally and on the theatre in Shakespeare's London

English Words I: Word formation

104157.1

5 credits

BA (intermediate) level, please see prerequisites

Self-study course

Offered: Spring 2015

Lecturer: Brita Wårvik

Contact: engelska@abo.fi

Aim: To acquaint students with the main processes of word formation in English; to introduce them to the concepts and terms necessary for understanding the structure of English vocabulary; to develop their analytical skills in studying English vocabulary; and to develop the academic skills necessary for the satisfactory completion of the course work.

Contents: An introduction to the main processes of word formation in English and an introduction to basic concepts and terms in morphology.

Mode of study: Self-study course.

Prerequisites: 25 credits (ECTS) of English at university level.

Target audience: BA-level students of English language and literature.

Form of assessment: Three of the online exercises or other specified tasks to be agreed on at the preparatory meeting; and a take-home (to-the-library) examination (6 hours).

Course literature: Stockwell, Robert and Donka Minkova. English Words: History and Structure. Cambridge University Press. Chapters 1, 4-8 and 12 and the associated online materials; books and articles on English word formation, history of English and semantics; and standard reference works.

English Words II: History

104157.2

5 credits

BA (intermediate) level, please see prerequisites

Self-study course.

Offered: Spring 2015

Lecturer: Brita Wårvik

Contact: engelska@abo.fi

Aim: To acquaint students with the main sources of English vocabulary; to introduce them to the basic types of semantic changes; to further develop their analytical skills in studying English vocabulary; and to develop the academic skills necessary for the satisfactory completion of the course work.

Contents: An overview of the main sources of English vocabulary and an introduction to the basic types of semantic changes.

Mode of study: Self-study course.

Prerequisites: 25 credits (ECTS) of English at university level.

Target audience: BA-level students of English language and literature.

Form of assessment: Three of the online exercises or other specified tasks to be agreed on at the preparatory meeting; and a take-home (to-the-library) examination (6 hours).

Course literature: Stockwell, Robert and Donka Minkova. English Words: History and Structure. Cambridge University Press.

ARTS

Chapters 2-3, 9-11 and the associated online materials; books and articles on English word formation, history of English and semantics; and standard reference works

Literature Specialisation I

104214.0

5 credits

BA (intermediate) level, please see prerequisites

Lectured and self-study course

Offered: Spring 2015

Lecturer: Anthony Johnson

Contact: engelska@abo.fi

Aim: to deepen students' understanding of English literature, to familiarise them with a particular field of English literature, its main authors, contexts and the critical approaches used in relation to it, to extend their knowledge of ways of talking about and thinking about literature, and to develop the academic skills necessary for the satisfactory completion of the course work.

Mode of study: Seminars as well as self-study; full attendance required in all seminar meetings

Prerequisites: 25 credits (ECTS) of English at university level

Target audience: BA-level students of English language and literature

Form of assessment: One 10-minute presentation, one 12-15-page essay (5,000-6,000 words), adequate preparation (readings and tasks) for and active participation in seminars, and completion of the course evaluation form

Course literature: A reading list will be published every year.

MA (advanced) level

Reading the Culture Wars

5 credits

MA (advanced) level, please see prerequisites

Lectured course

Offered: Autumn 2014

Lecturer: Stuart McWilliams

Contact: engelska@abo.fi

Aim: To encourage students to engage critically and non-confessionally with recent controversies regarding 'belief' as figured in literary and journalistic discourses; to enable them to interrogate the rhetoric of such controversies by situating them within wider philosophical, political and aesthetic debates; to facilitate reflection on the role of the arts and humanities (past, present and future) in these conflicts and in society as a whole.

Contents: An interdisciplinary course examining the context, character and literary imagining of several interrelated 'wars' over issues such as secularisation, relativism, the status of theology as an academic discipline, and the political function of the humanities.

Mode of study: Seminars; full attendance required in all seminar meetings

Prerequisites: 60 credits (ECTS) of English at university level

Target audience: MA-level students of English language and literature.

Form of assessment: One 2-page written assignment to be delivered in class as an oral presentation and handed in and one fifteen-page essay (6000 words), adequate preparation (readings and tasks) for and active participation in seminars.

Course literature: Richard Dawkins, *The God Delusion*; Ronan Bennett, *The Catastrophist*; journalistic media, short fiction and other materials as provided in an electronic course pack.

Assessing English Language Skills

104553.0

5 credits

MA (advanced) level, please see prerequisites

Lectured course + study circle

Offered: Autumn 2014

Lecturer: Signe-Anita Lindgrén

Contact: engelska@abo.fi

Aim: To acquaint students with the key issues and concepts in the testing and evaluation of language skills; to help students relate concepts derived from their study of linguistics and language learning to the practical demands of language assessment; to equip students with the competence to evaluate approaches to language assessment and design appropriate forms of assessment for themselves; and to develop academic skills necessary for the satisfactory completion of the course work.

Contents: A survey of approaches to language assessment and evaluation; an introduction to the main technical issues involved in language test design; analysis of examples and practical tasks in the assessment of each of the four main skills areas: speaking, writing, listening and reading.

Mode of study: Seminars and study circle meetings; full attendance required in all seminars and study circle meetings

Prerequisites: 60 credits (ECTS) of English at university level

Target audience: MA-level students of English language and literature; compulsory for students on the teachers' line; other students may be admitted if there are available spaces.

Form of assessment: Full attendance in all seminar meetings and active participation, one essay or practical assignment (approximately 3,000 words); one 20-minute small-group presentation and peer assessment, weekly readings and tasks for preparation and post-processing; adequate preparation for and active participation in classes

Course literature: Course materials may include books and scholarly articles on language testing and assessment; extracts and articles from journals; recordings, video and web-based material; standard reference works; published language tests. A reading list will be issued.

Text and Discourse I

104669.1

5 credits

MA (advanced) level, please see prerequisites

Self-study course

Offered: Autumn 2014

Lecturer: Brita Wårvik

Contact: engelska@abo.fi

Aim: To deepen students' understanding of linguistics and the study of language, to extend their knowledge of English linguistics by focusing on the study of text and discourse, to familiarize them with the conceptual and analytical tools and skills necessary for the description and explanation of the given linguistic phenomena and to develop academic skills necessary for the satisfactory completion of the course work.

Contents: A survey of the field, an introduction to the main topics, concepts and methods relevant to the given field, a discussion of the given field in relation to the current linguistic research in general, and to adjacent fields of study, and potential applications.

Prerequisites: 60 credits (ECTS) of English at university level.

Target audience: MA-level students of English language and literature.

Form of assessment: 3-5 study journals based on assigned readings.

Course literature: These may include books and articles on text

and discourse linguistics, books and articles on the study of particular topics within the field, standard reference works. A reading list will be issued each year.

The Linguistics of Language Learning

104552.0

5 credits

MA (advanced) level, please see prerequisites

Lectured course

Offered: Autumn 2014

Lecturer: Signe-Anita Lindgrén

Contact: engelska@abo.fi

Aim: To acquaint students with the main research-based insights into the nature of foreign language learning, to extend and apply their knowledge of linguistics to the study of language learning, to introduce methodological issues related to the investigation and assessment of language learning, and to develop academic skills necessary for the satisfactory completion of the course work.

Contents: A survey of the study of foreign language learning, discussions of findings in applied linguistics research from the perspective of language learning, an overview of the main conceptual and methodological issues related to language learning, and an examination of the interface between theoretical linguistics and the practical contexts of language learning.

Mode of study: Seminars; full attendance required in all seminar meetings

Prerequisites: 60 credits (ECTS) of English at university level
Target audience: MA-level students of English language and literature, compulsory for students on the teachers' line; other students may be admitted if there are available spaces.

Form of assessment: One 20-minute presentation and peer assessment, one 10-page (4,000-word) essay, weekly readings and tasks for preparation and post-processing, adequate preparation for and active participation in classes.

Course literature: Course materials may include books and scholarly articles on foreign language learning and relevant linguistic frameworks, supplementary course materials, recordings, video and web-based materials, corpus data and other material, and standard reference works. A reading list will be issued.

Children's Literature **CANCELLED**

104657.1

5 credits

MA (advanced) level, please see prerequisites

Lectured course

Offered: Autumn 2014

Lecturer: Maria Lassén-Seger

Contact: engelska@abo.fi

Aim: To provide an introduction to the history and analysis of classical and modern children's literature in English.

Contents: An introduction to the history and definitions of literature for children; an introduction to the theoretical approaches to literature; an introduction to the concepts of the child and childhood in books for children; and an introduction to the central genres and themes of fiction for children and its role in society.

Mode of study: Seminars; full attendance required in all seminar meetings

Prerequisites: 60 credits (ECTS) of English at university level
Target audience: MA-level students of English language and literature

Form of assessment: For each lecture students are required to read assigned fictional texts, which are discussed in class.

The final examination is a five-page written analysis of a book of your own choice.

Course literature: These will include novels and picture books, and theoretical texts. Every year a reading list will be issued.

Topics in Literary Theory

104540.0

5 credits

MA (advanced) level, please see prerequisites

Lectured Course

Offered: Autumn 2014

Lecturer: Anthony Johnson

Contact: engelska@abo.fi

Aim: To help students deepen their understanding of the issues behind Literary Theory and to develop a working knowledge of selected theoretical approaches that may be of use to them in the pursuit of their own special research interests. Contents: Relevant schools of Literary Theory studied will be tailored according to the needs and interests of participants in the course.

Mode of study: Seminars; full attendance required in all seminar meetings

Prerequisites: 60 credits (ECTS) of English at university level
Target audience: MA-level students of English language and literature.

Form of assessment: One 2-page written assignment to be delivered in class as an oral presentation and handed in and one fifteen-page essay (6000 words), adequate preparation (readings and tasks) for and active participation in seminars. Course literature: Camelia Elias, *The Way of the Sign: Cultural Text Theory in Two Steps* (UK and Denmark: Eyecorner Press, 2011) + selected literary texts and handouts.

English in Context

104550.0

5 credits

MA (advanced) level, please see prerequisites

Lectured course

Offered: Autumn 2014

Lecturer: Martin Gill

Contact: engelska@abo.fi

Aim: To explore key aspects of English language use, variation and change in a range of contemporary and historical contexts; to help participants develop critical insights into the relations between social and linguistic phenomena in a historical perspective, and an understanding of the relevant concepts and methodologies used to study them; to read a range of literature in the field. Participants will be encouraged to read and think critically about the issues raised, and to develop interests of their own. Sessions will be in seminar format, with a presentation followed by related activities and discussion. Readings form an essential part of the work to be done. Content: An initial session will present an overview of the field; selected topics will then be examined in greater depth. These may include issues relating to: social and regional language variation in anglophone settings; processes of change, growth and standardization; linguistic legacies of the British Empire; places, varieties and identities; norms, attitudes and prescriptivism; English at school; the politics of language; urban Englishes and multilingualism; English in international contexts; language spread and competition; language and gender; politeness phenomena.

Mode of study: Seminars; full attendance required in all seminar meetings

Prerequisites: 60 credits (ECTS) of English at university level
Target audience: MA-level students of English language and

ARTS

literature.

Form of assessment: One 10-page (approximately 3000-word) written assignment or one 4-hour written examination; one 10-minute presentation; assignments for seminar meetings; full attendance at, and well-prepared participation in seminars.

Course literature: Will include books and articles on English sociolinguistics, the study of language phenomena and historical topics, a wide variety of supplementary materials relevant to the course, including recordings, video and web-based materials, and standard reference works. A reading list will be issued.

English Linguistics III

104501.0

5 credits

MA (advanced) level, please see prerequisites

Lectured course

Offered: Autumn 2014

Lecturer: Brita Wårvik

Contact: engelska@abo.fi

Aim: To deepen students' understanding of the English language and its use, to familiarize them with a particular field of English linguistics, its central topics and conceptual and analytical tools, to extend their knowledge of ways of describing and explaining linguistic phenomena, and to develop the academic skills necessary for the satisfactory completion of the course.

Contents: A survey of a particular field of English linguistics or a particular linguistic phenomenon, which may change from year to year. An introduction to the basic concepts and models for analysis and an overview of the main topics in the given field of linguistics.

Mode of study: Seminars; full attendance required in all seminar meetings.

Prerequisites: 60 credits (ECTS) of English at university level

Target audience: MA-level students of English language and literature.

Form of assessment: One 10-page essay (4000 words), one 10-minute presentation, and adequate preparation (readings and tasks) for and active participation in seminars.

Course literature: These may include books and articles on the given field of English linguistics, books and articles on the study of the use of various language phenomena, supplementary course materials, corpus data and other materials, and standard reference works. A reading list will be published every year.

Web Rhetoric I: Analysis

104561.0

5 credits

MA (advanced) level, please see prerequisites

Lectured course

Offered: Spring 2015

Lecturer: Jennie Öhman

Contact: engelska@abo.fi

Aim: To introduce the students to linguistic research into web materials, to enhance the students' critical literacy skills in analyzing a variety of materials that individuals, societies, institutions and companies publish on the web, and to develop the academic skills necessary for the satisfactory completion of the course.

Contents: An overview of linguistic research of web materials, a detailed study of some types of web pages, a critical discussion and evaluation of web materials.

Mode of study: Seminars

Prerequisites: 60 credits (ECTS) of English at university level
Target audience: MA-level students of English language and literature, obligatory for students on the Language and Business line.

Form of assessment: One 10-page (4000 word) essay based on a research project, one 20-minute oral presentation, full attendance in all seminar meetings, adequate preparation (readings and tasks) for and active participation in seminars, and completion of a course evaluation form.

Course literature: Course materials may include books and scholarly articles on web communication, books and scholarly articles on relevant linguistic topics, web materials, standard reference works, and supplementary materials on the course page. A reading list will be issued.

Pictures in Context

5 credits

MA (advanced) level, please see prerequisites

Lectured course

Offered: Spring 2015

Lecturer: Martin Gill

Contact: engelska@abo.fi

Aim: To explore selected aspects of visual culture in Britain and their relation to their historical, social and intellectual contexts from the Middle Ages to the present day; to enable participants to think critically about the role of visual representation in constructing ideas of (among other things) place, nature, power and historical events; and to encourage participants to develop their own areas of interest in the field.

Contents: Detailed reading of selected pictures (works of art, photographs and other visual artefacts) from a variety of perspectives; examination of the connections between the works studied and their historical, social and intellectual context, including contemporary writing; critical discussion of responses and interpretations in a historical perspective.

Mode of study: Weekly seminars, independent study (individually and in groups); full attendance is required at all seminar meetings.

Prerequisites: 60 credits (ECTS) of English at university level.

Form of assessment: One 10-page essay (c. 4000 words); one 20-minute presentation; weekly readings and tasks for preparation; an oral examination in doubtful cases; active participation in class.

Course literature: May include scholarly books and articles on relevant topics, articles from newspapers and magazines, video and web-based materials, pictures, handouts and standard reference works. A reading list will be issued.

Shakespeare II

104678.1

5 credits

MA (advanced) level, please see prerequisites

Lectured course

Offered: Spring 2015

Lecturer: Anthony Johnson

Contact: engelska@abo.fi

Aim: To deepen students' knowledge of Shakespeare's plays, focusing on aspects of their chronology, genre, language, theatricality and reception history; to familiarise students with recent developments in Shakespeare studies; to develop students' literary research skills.

Contents: Independent study of different Shakespearean dramatic genres from those surveyed in Shakespeare I; reading in recent critical approaches to Shakespeare; preparation of an extended essay.

Mode of study: Seminars; full attendance required in all seminar meetings

Prerequisites: 60 credits (ECTS) of English at university level.
Target audience: MA-level students of English language and literature.

Form of assessment: One 2-page written assignment, one fifteen-page essay (6000 words), and adequate preparation (readings and tasks) for an active participation in seminars.

Course literature: Four plays by Shakespeare; scholarly editions, criticism and other secondary material on these plays; selected readings illustrating recent developments in Shakespeare studies.

Digital Discourses

104563.0

5 credits

MA (advanced) level, please see prerequisites

Lectured course

Offered: Spring 2015

Lecturer: Loukia Lindholm

Contact: engelska@abo.fi

Aim: To deepen students' understanding of the English language and its use with a focus on online social interaction, to familiarize them with the conceptual and analytical tools necessary for the description and explanation of online linguistic phenomena, and to develop the academic skills necessary for the satisfactory completion of the course.

Contents: A survey of the study of online social interaction, an overview of the main concepts and methods relevant to the given field, a discussion of the given field in relation to current linguistic research, and to adjacent fields of study.

Mode of study: Seminars; full attendance required in all seminar meetings

Prerequisites: 60 credits (ECTS) of English at university level

Target audience: MA-level students of English language and literature.

Form of assessment: one 10-page essay (4000 words), one 10-minute presentation, adequate preparation (readings and tasks) for and active participation in seminars.

Course literature: Course materials may include books and scholarly articles on online communication, books and scholarly articles on the study of particular topics within the field, web-based materials, and standard reference works. A reading list will be issued.

See also *Visual studies*, page 98.

French Language and Literature

Bienvenue au département de langue et littérature françaises de l'université de Åbo Akademi. Dans notre département, tous les cours sont dispensés en français uniquement. Tous les étudiants étrangers avec de bonnes connaissances en français – et éventuellement une bonne pratique de la langue – sont les bienvenus. Les cours changent d'une période à l'autre au long de l'année universitaire. Le département de langue et littérature françaises a un prolongement sur Internet.

Pour de plus amples informations sur le cursus proposé par notre département – notamment le descriptif plus détaillé des cours, vous pouvez vous reporter à notre site internet: www.abo.fi/franska

Histoire et analyse littéraires : XVI-XVIII siècles

5 credits

Intermediate level

Lectures and seminars

Offered: Autumn 2014

Lecturer: Svante Lindberg

Aim: To give the students an introduction to the history of French literature from the 16th to the 18th century. Reading of representative texts from that period in the original language and basic literary analysis.

Format: lectures, seminars, individual reading, papers, oral presentations

Prerequisites: fluency in French

Target audience: year 2 or higher

Form of assessment: active participation, papers, oral presentations, written examinations

Contact hours: 32

Didactique du français langue étrangère

10 credits

Advanced level

Lectures and seminars

Offered: Autumn 2014

Lecturer: David Chataignier

Aim: To give the students a theoretical framework for teaching French as a foreign language and an introduction in the practice of teaching French

Format: lectures, seminar discussions, individual readings, written papers, oral presentations

Prerequisites: 2 or 3 years of French studies on university level.

Target audience: Year 4 or 5

Form of assessment: diary, oral presentations

Contact hours: 36

Histoire et analyse littéraires : XIX-XXIe siècles

5 credits

Intermediate level

Lectures and seminars

Offered: Spring 2015

Lecturer: Svante Lindberg

Aim: To give the students an introduction to the history of French literature from the 19th to the 21st century. Reading of representative texts from that period in the original language and basic literary analysis.

Format : lectures, seminars, individual reading, papers, oral presentations

Prerequisites: fluency in French

Target audience: year 2 or higher

Form of assessment: active participation, papers, oral presentations, written examinations

Contact hours: 36

Le roman francophone contemporain

5 credits

Advanced level

Lectures and seminars

Offered: Spring 2015

Lecturer: Svante Lindberg

Aim: To give an introduction to the contemporary novel written in French and to read 3-4 representative francophone works in the original language. Terminology, concepts and textual analysis.

Format: lectures, seminars, individual reading and research, papers

Prerequisites: fluency in French

Target audience: years 3-4

ARTS

Form of assessment: active participation, presentations and a final paper
Contact hours: 16

Médias et discours médiatiques en France

5 credits

Intermediate level

Lectures and seminars

Offered: Spring 2015 (to be confirmed)

Lecturer: David Chataignier

Aim: To give the students the analytical tools to French media discourse.

Format: lectures, seminar discussions, individual readings, written papers

Prerequisites: fluency in French

Target audience: Year 2 or higher

Form of assessment: written examination

Contact hours: 16

Ecrit académique

5 credits

Advanced level

Lectures and seminars

Offered: Spring 2015

Lecturer: David Chataignier

Aim: To give the students abilities to write academic text in the French Perspective

Format: lectures, seminar discussions, individual readings, written papers, written exercises

Prerequisites: 2 years of French studies on university level

Target audience: Year 4 or 5

Form of assessment: portfolio of written papers, written examination

Contact hours: 32

Francophonie

5 credits

Advanced level

Self-study course

Offered: Upon agreement

Lecturer: David Chataignier

Aim: To give the students notions of the Francophony in the World in the fields of culture, politics, economy and language.

Format: individual readings

Prerequisites: fluency in French

Target audience: Year 4 or 5

Form of assessment: written examination

Syntaxe et sémantique du français

5 credits

Advanced level

Lectures and seminars

Offered: Spring 2015

Lecturer: Meri Larjavaara

Aim: Observation and analysis of linguistic phenomena. Study in depth of one linguistic field.

Prerequisites: fluency in French

Format: Lectures, seminar discussions, individual reading and research, oral presentations.

Target audience: year 3 - 4.

Form of assessment: Diary and presentation.

German Language and Literature

Herzlich willkommen zu unserem recht temperamentvollen Fach. Im Fach Germanistik werden praktisch alle Kurse auf Deutsch abgehalten. Ausländische Studierende mit nachgewiesenen guten Sprachkenntnissen im Deutschen (eventuell Sprachprüfung) sind herzlich willkommen.

Die Germanistik an der Åbo Akademi hat ein weites Netzwerk an Kooperations-Universitäten. So findet zum Beispiel ein ständiger Austausch an Dozenten mit deutschen Erasmus-Partneruniversitäten statt. Außerdem werden den Studierenden ausgezeichnete Möglichkeiten geboten, zeitweise an deutschen Universitäten zu studieren. Auf diese Weise haben die Studierenden die Möglichkeit, ihre Kenntnisse der deutschen Sprache und Kultur im Alltag der deutschen Gesellschaft zu vertiefen. Eine internationale wissenschaftliche Kooperation mit Universitäten aus vielen europäischen Ländern (Name der Kooperation: Europäische Kulturen in der Wirtschaftskommunikation) sowie eine regelmäßige Kongress- und Publikationstätigkeit garantieren ein hochklares Unterrichts- und Vorlesungsniveau mit der Umsetzung neuester wissenschaftlicher Erkenntnisse.

Autumn 2014

BA-level

Einführung in das wissenschaftliche Schreiben

106203.0

5 credits

BA-level

Supervised self-study course

Offered: Autumn 2014

Lecturer: Oliver Winkler

Content: Die Veranstaltung soll kontrastiv in Formen des wissenschaftlichen Arbeitens einführen. Dabei sollen Ziele, Traditionen und Konventionen wissenschaftlichen Arbeitens ebenso diskutiert werden, wie ethische Normen. Auch die konkrete Vorgehensweise bei der Verfassung von Seminararbeiten/Magisterarbeiten wird behandelt werden.

Learning outcomes:

Die Studenten erhalten Einsichten in Prozesse wissenschaftlichen Arbeitens und dessen ethische Grundlagen. Sie entwickeln Verfahrensweisen der Strukturierung und Textgestaltung und üben sich in deren Reflektion.

Teaching methods: Eigenlektüre, Diskussion, regelmäßige Teilnahme mit Anfertigung von Hausarbeiten zu jeder Sitzung.

Teaching assessment: Abgabe eines Portfolios

Total hours: 125h

Seminar Pragmatik

10 credits

BA-level

Lectured course

Offered: Spring 2015

Lecturer: Oliver Winkler

Contents: Im Seminar befassen wir uns mit den Problem- und Aufgabenfelder der (linguistischen) Pragmatik. In einem ersten theoretischen Teil sollen einige grundlegende Zeichen- und Kommunikationsmodelle behandelt werden, die bis heute in der Forschung nachwirken (u.a. Odgen/Richards, Peirce, Morris,). Des Weiteren sollen verschiedene Perspektiven, Konzepte und Fragestellungen aus dem Bereich der Pragmatik theoretisch erläutert und kritisch reflektiert werden

(u.a. Sprechakttheorie, Kommunikationsmaximen). In einem zweiten stärker praxisorientierten Teil des Kurses beschäftigen wir uns mit einzelnen thematischen Bereichen (Internet, Politik, Journalismus, Schule, betriebliche Praxis usw.) und untersuchen hierbei jeweils die Sprache in ihrer spezifischen Form und Funktion.

Learning outcomes:

- Überblick über verschiedene Theorie- und Praxisfelder der linguistischen Pragmatik
- vertiefte theoretische Auseinandersetzung mit einem pragmatischen Ansatz auf der Basis eines empirischen Beispiels
- Entwicklung eines Bewusstseins für Kommunikation als Form sozialen Handelns

Teaching methods: Vorlesung, Diskussion

Form of assessment: Hausarbeit

Total hours: 250h

MA-level

Gesprächsanalyse

106852.0

5 credits

MA-level

Lectured course

Offered: Autumn 2014

Lecturer: Oliver Winkler

Content:

- Mündlichkeit und Schriftlichkeit
- Methoden bei der Aufnahme (z.B. Beobachterparadoxon) und Transkription von Gesprächen
- Zentrale Gesprächsaspekte: Sprecherwechsel, Präferenzstrukturen, Reparaturen
- Grammatische und pragmatische Projektion, Teilnehmerrollen
- Gesprächstypologien (Gespräche in Institutionen, im Beruf, im Privaten)
- Konzeptuelle Mündlichkeit im Internet: z.B. Chat

Learning outcomes:

- Vertiefte Kenntnisse der verschiedenen Strömungen in der Gesprächslinguistik
- Kenntnisse über interdisziplinäre Zusammenhänge und fächerspezifische Differenzen der Gesprächsforschung (Konversationsanalyse, Ethnomethodologie, Funktionale Pragmatik, 'interactional linguistics')
- Vervollkommnung bei der Aneignung eines gängigen Transkriptionsverfahrens
- Fähigkeit zur selbständigen Anfertigung von Basis- und Feintranskripten
- Fähigkeit, gesprächsspezifische Merkmale zu identifizieren und sie Gesprächsphasen, Gesprächsverläufen und Gesprächsgattungen zuordnen zu können
- Fähigkeit zum konstruktiven Umgang mit der Multimodalität von Gesprächen
- Einsicht in die Beziehung zwischen Struktur und Verlauf von Gesprächen einerseits und ihrem institutionellen, professionellen, informellen etc. Rahmen andererseits
- Fähigkeit zu Identifikation und Analyse unterschiedlicher Teilnehmerrollen im Gespräch

Teaching methods: Vorlesung, Diskussion, Übung

Total hours: 250h

Diskursanalyse

5 credits

MA-level

Lectured course

Offered Autumn 2014

Lecturer: Kimmo Elo

Content: Der Kurs führt ein in die theoretischen und methodischen Grundlagen der Diskursanalyse und ihre empirische Anwendung. Die Studierenden setzen sich mit ausgewählten diskursanalytischen Ansätzen auseinander und überprüfen deren praktische Anwendung anhand eigens gewählter Textexemplare.

Learning outcomes:

Die Studierenden lernen:

- das kritische Reflektieren und die praktische Anwendung diskursanalytischer Ansätze
- ein eigenes Forschungsprojekt durchzuführen
- eigene Forschungsergebnisse sowohl schriftlich als auch mündlich vorzutragen

Teaching methods: Vorlesung, Übung, Gruppenarbeit und Diskussion

Form of assessment: Mündliche Präsentation, Schriftliche Hausarbeit (10-15 S.)

Total hours: 125h

Spring 2015

BA-level

Werbesprache

10 credits

BA-level

Lectured course

Offered: Autumn 2014

Lecturer: Dina Heegen

Content: Der Kurs führt in die Grundlagen der Werbesprache ein. Auf der Grundlage synchronen und diachronen Materials werden Analysen nach sprachwissenschaftlichen Fragestellungen erstellt, wobei unterschiedliche Medien und Formate deutschsprachiger Werbung (u.a. Printwerbung, Hörfunk-, Fernsehspots, Internet) berücksichtigt werden.

Learning outcomes:

- Werbewissenschaftliche Grundlagen
- Grundwissen der Werbesprache/Werbekommunikation
- Interpretations- und zentrale textlinguistische Arbeitstechniken der germanistischen Linguistik
- Auseinandersetzung mit Fachliteratur der Werbesprache in der Zielsprache Deutsch

Teaching methods: Seminar

Form of assessment:

- Referat
- Hausarbeit

Total hours: 250h

MA-level

Projektmodul 1: Lehrerausbildung

10 credits

Lectured course

MA-level

Offered: Spring 2015

Lecturer: Oliver Winkler

Content: Der Kurs richtet sich in erster Linie an Studierende des Masterprogramms Deutschlandstudien mit Schwerpunkt Lehrerausbildung. Die Studierenden führen ein eigenes praxisnahes Projekt durch, das sich mit der Didaktisierung

ARTS

von Literatur im DaF-Unterricht befasst. Im Anschluss an einen theoretisch-methodischen Teil zur Literaturdidaktik, bereiten die Studierenden in enger Zusammenarbeit mit Schulen eine Lektion vor und führen diese durch.

Learning outcomes:

- Didaktische Grundlagen des Literaturunterrichts
- Vorbereitung und praktische Durchführung einer Lektion
- Umgang mit literarischen Texten im schulischen Kontext

Teaching methods: Vorlesung, Diskussion, Übung

Form of assessment: Projektportfolio

Total hours: 250h

Projektmodul 2: Deutschland und Europa

10 credits

MA-level

Lectured course

Offered: Spring 2015

Lecturer: Kimmo Elo

Content: Der Kurs bietet eine projektorientierte Annäherung in zeitgeschichtliche Diskussionen über die Rolle Deutschlands in Europa. Der erste Teil besteht aus einer Einführung in die wichtigsten Diskussionen bezüglich des Themenkomplexes Deutschland und Europa. Der zweite Teil ist praxisorientiert, indem die Studierenden eine Projektarbeit in Zusammenarbeit mit einem externen Partner (Botschaft, Medien, Hochschulen) vorbereiten und durchführen.

Learning outcomes:

- Fundierte Kenntnisse über den Themenkomplex Deutschland und Europa
- Vorbereitung und praktische Durchführung eines Projekts
- Umgang mit verschiedenen thematisch gebündelten Texten im medialen Bereich

Teaching methods: Vorlesung, Diskussion, Übung

Form of assessment: Projektportfolio

Total hours: 250 h

Literatur und Gespräch

106855.0

10 credits

MA-level

Seminars

Offered: Spring 2015

Lecturer: Oliver Winkler

Content: In diesem Modul werden Gesprächstypologien an ausgewählten literarischen Beispielen erarbeitet. Nach einem Einblick in die Forschungsfragen der historischen Dialogforschung (Teilmodul 1) folgt eine Auseinandersetzung mit theoretischen Problemen, die sich bei der Applizierung gesprächslinguistischer Kategorien auf literarische Dialoge ergeben (Teilmodul 2). In einem weiteren Schritt eignen sich die Studierenden das Kategorieninventar im Rahmen der historischen Dialogforschung an und üben sich in dessen Anwendung anhand literarischer Dialogexemplare (Teilmodul 3). In einem letzten Schritt wählen sie ein dramatisches Werk aus und erstellen anhand einer Passage aus diesem Werk eine Dialoganalyse, die sie im Plenum mündlich präsentieren (Teilmodul 4)

Learning outcomes:

- Aneignung eines Überblicks über den Forschungsstand (und die Forschungslücken) in der historischen Dialogforschung
- Die Fähigkeit, einzelne Problemstellungen und Ansätze mündlich präsentieren zu können
- Erste Einblicke in konkrete Problemstellungen anhand der Lektüre von Fallstudien

- Vertiefter Einblick in die theoretische Dimension des Forschungsgebiets der historischen Dialogforschung
- Aneignung der Grundlagen dialoglinguistischer Methodik
- Die Fähigkeit, Sprechhandlungen ermitteln und interaktionale Abläufe beschreiben zu können
- Die Kompetenz, innerhalb des abgesteckten Forschungsrahmens eine eigenständige Fragestellung zu entwickeln und zu untersuchen
- Die Fähigkeit, das eigene Vorgehen theoretisch reflektieren und verankern zu können: Die Kursteilnehmerinnen sollen am Schluss auf der Grundlage ihrer eigenen Untersuchung in der Lage sein, Relevanz und Nutzen der Anwendung dialoganalytischer Verfahren an literarischen Texten kritisch beurteilen zu können.

Teaching methods: Diskussion

Teaching assessment: Schriftliche Hausarbeit

Total hours: 250h

Russian Language and Literature

Studies at the department demand a good knowledge of the Russian language. Students who do not have a command of Russian should study the language at the Centre for Language and Communication of Åbo Akademi (courses Russian 1-3) before entering the department. In the Language Centre Swedish is used in the teaching of Russian. In some courses at the department Swedish is used as a language of explanation, or as a language of contrast (e.g. translation exercises).

It is not possible to study the whole programme of Russian at Åbo Akademi University with no knowledge of Swedish. Foreign visiting students having the command of Russian required can take the courses given in Russian on the same terms as the regular students of Russian. The teacher of the course tests the command of Russian.

For further information on the availability of courses, please contact ryska@abo.fi.

Biosciences

Biochemistry

Several courses are taught in English throughout the academic year, however not all courses are given every year. Prerequisites for the classes: students should have at least two years of prior studies in biochemistry and a good general knowledge of chemistry.

It is also possible to do laboratory practice (7-15 weeks) in different research groups. Prerequisites for laboratory practice: Students are in general required to be on the MSc-level. A laboratory safety course at Åbo Akademi is also required before a student can work in a laboratory. Please consult Peter Mattjus for more information about further prerequisites for doing laboratory practice, which depends on the background of the student.

Computers in Bioresearch

211009.0

2 credits

Basic level

Lectured course

Offered: Autumn 2014 (repeated during spring 2015 upon request)

Lecturer: Tiina Salminen

Aim and content: The purpose of the course is to provide the basic knowledge in computer science for beginners; computers, Windows and Linux operating systems, and computational terminology. The main focus is in the usage of computers with the linux operating system including the most important linux commands and tools needed during structural bioinformatics courses. The course is given in the Moodle e-learning platform.

Prerequisites: Basic knowledge in biochemistry. Sign-up in advance electronically on site <https://www.abo.fi/institution/coursesbiosci>.

Target audience: Year 2 or 3

Form of assessment: Examination, Project reports

Contact hours: Introductory lecture, computer exercises, projects

Course literature: All notes and materials provided. Cynthia Gibas, Per Jambeck: Developing Bioinformatics Computer Skills

Applied Bioinformatics

282005.0

6 credits

Intermediate level

Lectured course

Offered: Autumn 2014

Lecturer: Tiina Salminen

Aim and content: The purpose of the course is to give practical introduction to data, methods and computing important to bioresearch today. The main focus is in the network based tools and resources for molecular and structural biology.

Prerequisites: Basic knowledge in biochemistry. Sign-up in advance electronically on site <https://www.abo.fi/institution/coursesbiosci>.

Target audience: Year 2 or 3

Form of assessment: Examination, Project reports

Contact hours: Lectures, computer exercises, projects

Course literature: All notes and materials provided. Recommended literature Jin Xiong (2006) Essential bioinformatics

Protein structure in bioscience

4 credits

Intermediate level

Lectured course

Offered: Spring 2015

Lecturer: Tiina Salminen

Aim and content: The main goal is to provide the student with good knowledge on the three-dimensional (3D) structure of proteins and the relationships between sequence, structure and function. The course is based on published structures and their usage in bioscience research, biotechnology and drug design.

Prerequisites: Basic knowledge in biochemistry. Sign-up in advance electronically on site <https://www.abo.fi/institution/coursesbiosci>.

Target audience: Year 2 or 3

Form of assessment: Examination, Project report

Contact hours: Lectures, computer exercises, projects

Course literature: All notes and materials provided.

Computer-aided drug design

4 credits

Advanced level

Lectured course

Offered: Spring 2015 (period 4)

Lecturer: Tiina Salminen

Aim and contents: This course gives an understanding of how drugs interact with macromolecules and strategies for how this information can be used in designing novel therapeutics using computational methods. The computational strategies based on the 3D structures of small molecules are also presented. The course contains lectures and computer exercises on ligand-based and structure-based drug design, drug-protein interactions, ligand docking, conformational analysis, pharmacophore hypothesis and quantitative structure-activity relationship.

Prerequisites: Basic knowledge in biochemistry. Sign-up in advance electronically on site <https://www.abo.fi/institution/coursesbiosci>.

Target audience: Year 4 or 5

Form of assessment: Examination, Project

Contact hours: Lectures (12h), computer exercises (8h), project

Course literature: All notes and materials provided. Hans-Dieter Höltje, Wolfgang Sippl, Didier Rognan, and Gerd Folkers (2003) Molecular modeling: basic principles and applications.

Advanced studies in Structural Bioinformatics

13 credits

Advanced level

Supervised research work

Offered: Upon agreement during the academic year.

Lecturers: Mark Johnson and Tiina Salminen

Aims/contents: Advanced studies in structural bioinformatics as part of a scientific research project

Prerequisites: Basic knowledge in biochemistry and an intermediate/advanced level course in structural bioinformatics.

Target audience: Year 4 or 5

Form of assessment: Project report and oral presentation of results.

Contact hours: Supervised research work in structural bioinformatics for eight weeks including report and presentation of the work.

Course literature: All notes and materials provided.

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Physical biochemistry

213009.0

6 credits

Advanced level

Lectured course

Offered: Autumn 2014

Lecturers: J Peter Slotte and others

Aims: To understand the physical basis for macromolecule interaction and function and to become familiar with biophysical techniques used in biosciences

Contents: Molecular structure and function, molecular thermodynamics, absorption spectroscopy, emission spectroscopy, emission spectroscopy of proteins, x-ray crystallography, NMR theory, protein NMR, calorimetry

Target audience: Masters level (4th and 5th academic year) graduate students

Form of assessment: written essays

Course literature: handouts during lectures; based on the following books: van Holde, Johnson and Ho: Principles of Physical Biochemistry (available at the Department of Biochemistry, Åbo Akademi); Tinoco, Sauer and Wang: Physical chemistry – principles and applications in biological sciences; Hammes: Physical chemistry for the biological sciences Allen: Biophysical Chemistry

Membrane biochemistry – lipids

213020.0

6 credits

Advanced level

Lectured course

Offered: Spring 2015

Lecturer(s): J Peter Slotte and others

Aims: To understand lipid behavior in aqueous environments, to understand membrane structure, membrane dynamics and role of lipid molecular properties in maintaining membrane structure and function

Contents: Lipid aggregation in aqueous environments; Lipid miscibility and interactions in bilayer membranes; Lipid phases and phase diagrams; Lateral structure of membranes – the formation of lipid domains; Lateral structure of membranes – importance of sphingolipids for membrane heterogeneity; Biophysical studies of membrane (lipid) properties using emission spectroscopy; NMR studies of lipid dynamics in membranes; Lipid/protein interaction in membranes; Computational simulation of lipid in membranes; Lipid transfer and transfer proteins; Lipid properties vs lipid transfer in cells

Target audience: Masters level (4th and 5th academic year) graduate students

Form of assessment: written essays

Course literature: handouts during lectures

Course literature: All notes and materials provided.

Industrial Biotechnology: Fermentation

212016.0

2 credits

Intermediate level

Lectured course

Offered: January 2015, starting week 3

Lecturers: Mark Johnson, Tomi Airene, Jarmo Käpylä

Aims: Introduce participants to practical uses of biochemistry and cell biology, through fermentation, to produce ales; Introduce participants to biochemical metabolism by showing how yeast (and even human muscle tissue) reflect the earliest biochemical pathways to produce energy - glycolysis and fermentation. Introduce participants to growing cells, preventing contamination, and how cellular growth and metabolism

changes under conditions of high and low concentrations of oxygen. Show participants how the industrial processes like brewing are designed to take advantage of yeast metabolism during the different stages of fermentation. Form groups for project work from ÅAU, University of Turku, and Turku University of Applied Sciences in order to foster communication and ties that extend beyond each individual university.

Contents: Lectures, group work, short group presentation, laboratory work (brewing an ale from grain, hops, yeast and water), project evaluation by peers

Target audience: Open to all

Assessment: Credit awarded for participation; peer evaluation of project

Course literature: Two books are provided; course materials via Dropbox

Course materials: All equipment and ingredients provided; course has license from Valvira to produce ales

Other details: Course uses production hall laboratory and kitchen facilities of Turku University of Applied Sciences, Lemminkäisenkatu 30. Limited to 48 participants

Sign-up in advance electronically on site <https://www.abo.fi/institution/coursesbiosci>.

Glycobiology - Biochemistry of Complex Carbohydrates

6 credits

Advanced level

Self-study course

Offered: Upon agreement during the academic year

Contact person: Peter Mattjus

Aims: To introduce the student to the essentials of glycobiology

Target audience: Master's level

Form of assessment: written examination

Course literature: Essentials of Glycobiology, Second Edition, 2009 Cold Spring Harbor Laboratory Press.

Fluorescence spectroscopy

8 credits

Advanced level

Self-study course

Offered: Upon agreement during the academic year

Contact person: J Peter Slotte

Aims: to introduce the student to the essentials of fluorescence spectroscopy

Target audience: Master's level

Form of assessment: written examination

Course literature: Lakowicz: Principles of fluorescence spectroscopy 2e or 3e

Lipid metabolism

8 credits

Advanced level

Self-study course

Offered: Upon agreement during the academic year

Contact person: J Peter Slotte

Aims: to introduce the student to the essentials of lipid metabolism

Target audience: Master's level

Form of assessment: written examination

Course literature: Vance and Vance: Biochemistry of Lipids, Lipoproteins and Membranes, 4th ed

The structure of biological membranes**8 credits****Advanced level****Self-study course****Offered: Upon agreement during the academic year**

Contact person: J Peter Slotte

Aims: to introduce the student to the essentials of membrane structure and function

Target audience: Master's level

Form of assessment: written examination

Course literature: Yeagle: The structure of biological membranes, 2 ed

Literature studies in Microbiology**5 credits****Intermediate level****Self-study course****Offered: Upon agreement during the academic year**

Contact person: Pia Roos-Mattjus

Target audience: Master's level

Aims: to introduce the student to the essentials of microbiology

Form of assessment: Written examination

Course literature: Willey et al: Prescott's Principles of Microbiology 1st ed, McGraw-Hill

Project work in research groups**12-25 credits****Intermediate to advanced level****Practical course****Offered: Upon agreement during the academic year**

Lecturer(s): J Peter Slotte and others

Aims: To gain experience in laboratory work and research techniques in various scientific disciplines

Contents: Laboratory work in selected research groups (check web site for group presentations)

Target audience: Master's level

Form of assessment: written laboratory reports

Course literature: handouts

Cell Biology

The cell is the smallest unit of life and all living organisms consist of cells. In order to understand the basis of life, it is of utmost importance to know how cells live, why they die, their life cycle, their behaviour, as well as their differentiation and formation into tissues and organs. By observing disturbances in these cellular functions, we are also able to obtain information that can be of great value for understanding different kinds of diseases.

The studies in Cell Biology are divided into three levels: basic level studies (1st year), intermediate level studies (2nd and 3rd year) and advanced level studies (4th and 5th year). The first and second level form the Bachelor's degree and the advanced level aim at a Master's degree. The Cell Biology curriculum is also closely linked to the recently established Master's Degree Programme in Biomedical Imaging, which started in Åbo in September 2010 (please see also this publication for more details). The programme is jointly administered by the Department of Biosciences at Åbo Akademi University and the Faculty of Medicine at the University of Turku. The two-year full-time programme contains courses given by both universities in the areas of biomedical imaging and leads to a Master of Science (M.Sc.) degree, 120 cr, in Biomedical Imaging. The

programme is intended for students with a B.Sc. degree in the Life Sciences or applicable areas of biomedical sciences, physics, chemistry or engineering, and it provides students with cutting-edge knowledge and good practical skills in imaging methods ranging from molecular and cellular to tissue and clinical imaging. Formal participation in the M.Sc. programme requires approval to the programme through an official application process. However, many courses are open to all students. More information about the programme: <http://www.bioimaging.fi/program/>
<http://www.abo.fi/student/en/Content/Document/document/19112>

Requirements and prerequisites

The basic level courses are suitable for all students who have a background or interest in biosciences. Participation in courses at the basic level does not require previous knowledge. Participation in the intermediate level and advanced level courses require basic understanding of cell and molecular biology as well as biochemistry. In addition, some courses may have more specific requirements for participation. The number of participants may be limited for some courses due to practical reasons. This concerns in particular the laboratory courses.

Introduction to cell biology**221006.0/ÅA_1901****3 credits****Basic level****Lectured course****Offered: Autumn 2014**

Lecturer: John Eriksson

Learning objectives: The course will introduce the ultra structure of the cell, cellular organelles, the relationship between structure and function, the basics of cellular metabolism and the basics of cell signaling. The course will also describe the principles of cell division and differentiation.

Teaching methods: Lectures, exercises.

Forms of examination: Examination and evaluation of course work

Laboratory basic course**221008.0/ÅA_1902****2 credits****Basic level****Lecture and laboratory course****Offered: Autumn 2014**

Lecturer: Diana Toivola

Learning objectives: The course will teach students basic laboratory techniques, including pipetting, weighing, pH measurements and good laboratory practice. Students will also learn basic laboratory safety issues.

Teaching methods: Lectures, exercises, laboratory work.

Forms of examination: For passing the course the attendant needs to participate in exercises, home assignments, quizzes and laboratory work as well as report on the laboratory work.

Advanced Microscopy**223074.05 credits****Advanced level****Lecture and laboratory course****Offered: Autumn 2014**

Lecturer: Diana Toivola

Learning objectives: Theoretical and practical knowledge in fluorescence techniques, confocal microscopy as well as other advanced microscopy techniques.

Teaching methods: Lectures, demonstrations, practical labora-

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tory work, essays and examination.

Forms of examination: Essays

Prerequisites: Basic theoretical and practical knowledge in microscopy

Cell signaling

283007.0

8 credits

Advanced level

Lectured course

Offered: Autumn 2014

Contact: John Eriksson

Learning objectives: The course focuses on intracellular signal pathways. Discussed are also techniques as well as studies targeting signal pathways in drug design.

Teaching methods: The course is composed of lectures (~20 h), subject-related seminars representing current research projects in the Turku/Åbo science community, self-studies and web material.

Forms of examination: Examination and evaluation of course work

Prerequisites: Good knowledge in cell biology

The structure and functions of the cytoskeleton

22368.0/ÅA_3905

8 credits

Lectured course

Advanced level

Offered: Autumn 2014

Lecturer: John Eriksson

Learning objectives: The course will provide the student with detailed characteristics of the different cytoskeletal systems, their structure and dynamics, and their role in cellular functions, in signal transduction, and normal homeostasis, development, and pathologies.

Teaching methods: The course will be arranged as a collaboration between Åbo Akademi Univ., Univ. of Helsinki, and Univ. of Turku. The course is comprised of lectures, seminars, and problem-based learning.

Forms of examination: Examination and evaluation of course work

Prerequisites: Good knowledge in cell biology

Histology

222041

4 credits

Intermediate level

Lectured and laboratory course

Offered: Autumn 2014 (Period 3 and 4)

Lecturer: Diana Toivola

Learning objectives: Students will learn to identify the basic types of tissues and understand their features and differences. Students will further learn to identify different organs, and how the basic tissue types compose tissues of individual organs linked to their function.

Teaching methods: Lectures, microscopy, web-based exercises. Book: Ross and Pawlina: Histology, A text and Atlas Sixth Edition.

Forms of examination: Examination

Microscopy and microscopy techniques

221007.0/ÅA_2902

3 credits

Intermediate level

Lectured course

Offered: Spring 2015

Lecturer: Diana Toivola

Learning objectives: Theoretical and practical knowledge in light microscopy. This includes knowledge in the development of modern microscopy, the parts of a microscope, optics and illumination pathways, staining techniques and Köhler illumination.

Teaching methods: Lectures, web-based exercises, microscopy, report with figures.

Forms of examination: Examination

Prerequisites: Basic knowledge in biology and in laboratory basics

Practical microscopy and microscopy techniques

222048.0

2 credits

Intermediate level

Laboratory course

Offered: Spring 2015

Lecturer: Diana Toivola

Learning objectives: Theoretical and practical knowledge in sample preparation for light microscopy. This includes dissection, fixation, sectioning, and staining techniques.

Teaching methods: Demonstrations, laboratory work.

Prerequisites: Basic knowledge in biology and in laboratory basics

Note: This course can only be taken together with the Microscopy and microtechniques course.

Environmental Biology

Environmental biology covers the areas of ecology and evolutionary biology with applied aspects. Our main focus is on marine model systems with topic ranging from behavioural and evolutionary ecology to community and ecosystem ecology. A number of projects also focus on more applied topics, for example in governance and at the interface between ecology and geology.

English teaching is provided mainly at the master level but these courses can also be included in bachelor level studies. Most courses can be attended with basic knowledge of biological concepts. Students can participate in our research projects through independent research projects and laboratory work. Supervision is provided at all levels in English. Please consider that the empirical part of our research is by necessity often done during the summer months and often at field stations. There are fewer projects where empirical work is done throughout the year.

Global Water Resources and Sustainable Development

200007.0

5 credits

Intermediate level

Lectured course

Offered: October-December 2014, to be confirmed

Lecturer(s): Gunnar Jacks

Contact: Sinikka Suomalainen

Aim(s) and contents: To get information about the present and future situation regarding freshwater on a global scale. To discuss options for water use to meet the millennium goals. Global water resources and their use, Water pollution, Water conflicts on different levels - interstate - societal, Water and millennium goals - challenges ahead. There will be an emphasis on Asia and Africa where the water situation will be most

strained.

Target audience: students from all faculties interested in sustainable development and environmental issues.

Format: Lectures, presentations 21 h

Form of assessment: Lectures and public presentations by the students over a given subject or a subject chosen by themselves.

Concepts of Sustainability

200005.0

5 credits

Basic/Intermediate level

Web-based course

Offered: October-December 2014, to be confirmed

Lecturer(s): Sinikka Suomalainen et al.

Contact: Sinikka Suomalainen

Aim(s) and contents: Concepts of sustainable development, processes, indicators, cases. Global, regional and local aspects.

Target audience: students from all faculties interested in sustainable development and environmental issues.

Form of assessment: web-based course, no contact hours.

Sustainable Water Management: Water use and management

200008.0

5 credits

Intermediate/Advanced level

Lectured course

Offered: Autumn 2014, to be confirmed

Contact: Sinikka Suomalainen, sinikka.suomalainen@abo.fi

Aim(s) and contents: To give a professional knowledge on the state of the water resources in the Baltic region, their present use and management, and the challenge of creating sustainable water-use in the Baltic Sea drainage area. This part focuses on how water is used. The sectors agriculture, municipal water supply, and industry are treated from both quantitative and qualitative aspects. Practical management options are also presented with several case studies.

Prerequisites: Requirements for successful participation are a basic knowledge of chemistry as well as environmental sciences.

Target audience: The course is of special interest for students with a background in e.g. geology, soil science, environmental engineering and chemistry, hydrology, ecology but other study areas may also be relevant.

Format: (24 h) Studies in a group led by a tutor teacher, lectures, case reports, probably videoconferences

Form of assessment: Paper/Presentation/Examination

Course literature: Sustainable Water Management in the Baltic Sea Basin.

2000. Book 2 Water Use And Management. Ed. L-C Lundin. The Baltic University Programme. 240 p. The book is available free on the internet <http://www.balticuniv.uu.se/swm/books/textbooks.htm> (and also at Åbo Akademi University Library) This course is an advanced course in the Baltic University Programme.

Registrations: to the Open University at

<http://www.abo.fi/fc/anmalningsdb/>, by e-mail: opu@abo.fi

Comparative Coastal Ecology, Project I

10 credits

Advanced level

Field course at Husö biological station (Åland) with lectures and exercises

Offered: Autumn 2014

Lecturer(s)/Contact: Johanna Mattila

Aim: Main purpose and content of the course will be to conduct an independent research project. Participants will also be introduced to work in an international research environment.

Contents: Each project will be conducted in pairs. In each pair, one person comes from Finland and the other one from the USA. Project work includes both planning and practical conductance of the research, as well as reporting the results in form of a short scientific paper. Also an oral presentation of the projects will be included. Joint project reports (one per project) can be turned in after the course by a dead line that will be decided during the course. Oral presentations will be given at an open seminar in Turku later this fall (concerns only the Finnish participants). The course will also include some introductory lectures given by the teachers, group discussions based on scientific papers, and presentations of own research interests given by the participants.

Learning outcomes: Capability to manage and conduct a scientific research project. Ability to work in a multicultural research environment. Enhanced knowledge on marine ecology.

Teaching methods: Project work, group discussions, lectures, student presentations

Entry requirements: Courses in marine and general ecology

Target group: PhD-students and advanced MSc-students in Environmental and Marine Biology

Form of assessment: Course activity, course report and presentation

Comparative Coastal Ecology, Project II

10 credits

Advanced level

Field course at Dauphin Island Sea Lab (USA) with lectures and exercises

Offered: Autumn 2014

Lecturer(s)/Contact: Johanna Mattila

Aim: Main purpose and content of the course will be to conduct an independent research project. Participants will also be introduced to work in an international research environment.

Contents: Project work including both planning and practical conductance of the research, as well as reporting the results in form of a short scientific paper. Also an oral presentation of the projects will be included. Project reports (one per project) can be turned in after the course by a dead line that will be decided during the course. Oral presentations will be given at an open seminar in Turku later this. The course will also include some introductory lectures given by the teachers, group discussions based on scientific papers, and presentations of own research interests given by the participants.

Learning outcomes: Capability to manage and conduct a scientific research project. Ability to work in a multicultural research environment. Enhanced knowledge on marine ecology.

Teaching methods: Project work, group discussions, lectures, student presentations

Entry requirements: Courses in marine and general ecology

Target group: PhD-students and advanced MSc-students in Environmental and Marine Biology

Form of assessment: Course activity, course report and presentation

Course literature: Scientific articles which are distributed in the beginning of the course

BIOSCIENCES

Evolutionary analysis

223055.0

5 credits

Advanced level

Lectured course

Offered: Autumn 2014

Lecturers: Ane T. Laugen, Kai Lindström

Contents: This course will present the general concepts of evolutionary biology and provide insight into basic evolutionary methodology. We will study evolutionary patterns and processes and introduce experimental and analytical methods for investigating evolutionary problems. The main focus will be population genetic analyses, comparative analyses and selection analyses. Finally, the course will give an overview of evolutionary biology applied to ongoing human-induced environmental problems. Upon successful completion of this course, the student will be able to i) provide an overview of latest research and the current developments in evolutionary biology, and ii) evaluate hypotheses, consider experimental design, analyze data, and highlighting new questions for future research in evolutionary biology. This is an advanced-level course for students with a strong background in biology (4th or 5th year students), but will also be open for PhD students, interested postdocs and researchers.

Textbook: Herron & Freeman (2014). Evolutionary analysis. Pearson. 5th edition

Plant ecology

223092.0

5 credits

Advanced level

Seminars

Offered: Spring 2015

Lecturer: Satu Ramula

Contents: Plant ecology examines biotic and abiotic factors determining the distribution and abundance of plant species. This seminar-based course focuses on the fundamental concepts of plant ecology including plant life histories, populations, communities and plant-animal interactions (pollination, dispersal, herbivory).

By the end of this course, you are expected to have an understanding of 1) evolutionary forces shaping plant traits, 2) how individual plants interact with their environment and what consequences these interactions have for plant populations and communities, and 3) how models are used to describe the dynamics of plant populations and communities.

The course consists of seminars and discussions based on the course book and most recent literature, providing an opportunity to practice your presentation skills.

Textbook: Gurevitch, J, Scheiner SM and Fox GA (2006) The ecology of plants. Sunderland, MA: Sinauer Associates Inc.

Linking data and ecological models

223078.0

5 credits

Advanced level

Lectured course, computer exercises

Offered: Spring 2015

Lecturer: Andreas Lindén

Contents: The course gives a broad view of the techniques, principles and philosophy of modern statistics, using gentle examples from the field of ecology. We will discuss different probability distributions, the concept of likelihood functions, as well as different general methods for estimating parameters and their uncertainty. We will also compare the principles of frequentistic, information theoretical and Bayesian statistics.

The aim is to give the participants deeper insight in what statistics is about, how it can and should be used, and how statistical results presented in research papers should be interpreted. While we do not concentrate on introducing a wide range of models and experimental designs, the course should help to independently apply and learn to use more specific statistical tools that can be looked-up from other sources. The course consists of lectures, computer exercises (using software such as Excel and R) and independent work at home. It is suitable for both graduate and undergraduate students (from the 3rd year), however, with the requirement of basic knowledge in statistics.

Demographic methods and analyses

223091.0

5 credits

Advanced level

Lectured course, computer exercises

Offered: Spring 2015

Lecturer: Satu Ramula

Contents: Demography examines how the size and structure of populations change over time. This course introduces demographic methods that are commonly used to measure rates of population change, and that can be applied to conserve rare species as well as to manage unwanted invaders regardless of taxa.

By the end of the course, you are expected to be familiar with count-based population models, matrix models and individual-based models. You should be able to collect demographic data, predict the future size of populations, estimate population growth rate and identify the best potential targets for management actions.

The course consists of lectures, computer exercises and a final project work conducted in pairs or alone. This advanced course requires basic skills in Excel and statistics, and is suitable for students interested in conservation/population biology.

Animal Personalities: Behaviour, Physiology and Evolution

223090.0

5 credits

Advanced level

Lectured course

Offered: Spring 2015

Lecturer: Markus Öst

Aim: The course will provide an understanding of why different personality types coexist, why behaviour is not more flexible and why the same personality traits correlate in different taxa. Central goals include understanding the interplay between behaviour and underlying physiology in shaping personality traits, and highlighting the applied aspects of personality research.

Contents: The rise of personality research in ecology and evolution; defining personalities; genetics, ecology and evolution of personalities; ontogenetic and neuroendocrine control of personalities; applied personality research.

Form of study: Lectures and student presentations examining a chapter in the recent textbook by Carere & Maestriperieri (2013) or a paper of their own choice; students also lead class discussion on their presentation. A book exam (Carere & Maestriperieri 2013) will take place at the end of the course. Grading is based on student presentations and the book exam. Course literature: Carere, C. & Maestriperieri, D. 2013: Animal Personalities: Behavior, Physiology, and Evolution. Univ. of Chicago Press (released 8.3.2013). 512 pp.

Thermal adaptation**5 credits****Advanced level****Lectures and seminars****Offered: Spring 2015**

Lecturer: Ane T. Laugen

Contents: The purpose of the course is to investigate how phenotypic evolution is related to environmental variation, with a particular focus on thermal adaptation. Upon successful completion of this course, the student should be able to i) provide an overview over evolutionary thermal biology, ii) describe how temperature affects phenotypes and distribution of organisms, iii) describe the strengths and weaknesses of theoretical models in evolutionary thermal biology, and iv) understand and describe the challenges individuals, populations and communities have in the face of global warming. Thermal adaptation is an advanced-level course for students with a strong background in biology (4th or 5th year students), but will also be open for PhD students, interested postdocs and researchers.

Text book: Angilletta (2009): Thermal adaptation: A theoretical and empirical synthesis. Oxford University Press

Conservation biology**223072.0****5 credits****Advanced level****Lectured course****Offered: Spring 2015**

Lecturer: Markus Öst

Contents: The course provides an up-to-date perspective on many high-profile issues in the field of conservation biology, including the following themes:

- Defining conservation biology and biodiversity
- The value of and threats to biodiversity
- Conserving biological communities, populations & species
- Behaviour and conservation
- Extinctions and critical transitions in nature
- The challenges of sustainable development
- Ecosystem services as a rationale for conservation

Hand-picked case studies illustrate pressing conservation problems and the controversies in the field, in order to stimulate thought and discussion. The links between conservation biology and environmental law, environmental economics, philosophy, social sciences and anthropology, park management, and government policy will be highlighted. The course consists of lectures/practicals and student essays based on topics provided by teachers. The course is suitable for BSc and master's students in biology and related fields.

Baltic Sea plankton**222031.0****5 credits****Intermediate level****Field course****Offered: Spring 2015**

Lecturer: Jonna Engström-Öst

The aim of the course is 1) to learn to recognise common plankton species and methodology associated with plankton work, 2) to do experiments and report results, and 3) to give seminar.

Content: a few introductory lectures to the subject (day 1-2), and then the students will prepare seminars (days 3-5) on material provided during the course. During the field course the students will sample and measure in the field, work in the lab, as well as prepare and perform a few short-term experiments, and present and analyse the data on the last course day.

A Sustainable Baltic Region**200004.0****5 credits****Basic/Intermediate level****Lectured course****Offered: Spring 2015, to be confirmed**

Lecturer(s): NN

Contact: Sinikka Suomalainen

Aim(s) and contents: How to develop a sustainable Baltic region. Energy, material flows, sustainable agriculture, forestry and marine resources, sustainable industrial production and technology, transports, habitation, sustainable economy, ethics and law for sustainability.

Learning outcomes: The student will be able to explain and discuss sustainability issues in different sectors in the Baltic Sea Region.

Target audience: Students from all faculties interested in sustainable development and environmental issues.

Mode of studies: Lectures, group discussions, probably videoconferences in cooperation with students at universities in the Baltic region and literature studies. The course language is English.

Form of assessment: Active participation, presentations, written examination.

Format: (33 h) Studies in a group, lectures

Course literature: A Sustainable Baltic Region, booklets 1-10. The Baltic University Programme, Uppsala university. Uppsala, 1997 and/or new electronically course material in production by the The Baltic University Programme.

Registrations: to the Open University at <http://www.abo.fi/fc/anmalningsdb/>, by e-mail: opu@abo.fi

This course is an undergraduate course in the Baltic University Programme.

Business and Economics

Courses for Bachelor level students:

Accounting

Cost Accounting, 5 credits (Autumn 2014)
Financial Accounting – A User Perspective, 5 credits (Autumn 2014)

Economics

Economics of development: a global perspective, 5 credits (Autumn 2014)

Information Studies

The Social Web, 5 credits (Autumn 2014)
Informetrics, 5 credits (Spring 2015)

International marketing

Introduction to Marketing, 10 credits (Autumn 2014)
International Business: a European perspective, 5 credits (Autumn 2014)
B2B-marketing in an international context, 5 credits (Autumn 2014)
Sustainable Business, 5 credits (Spring 2015)

Organisation and management

Knowledge Management, 5 credits (Autumn 2014)
Creative business and the creative economy, 5 credits (Autumn 2014)

Courses for Master level students:

Accounting

Value Based Management Accounting, 5 credits (Autumn 2014)

Economics

Game Theory, 5 credits (Autumn 2014/Spring 2015)

Information studies

Participatory information services 5 credits (Autumn 2014)
Management of information in digital environments, 5 credits (Autumn 2014)
Information Management, 5 credits (Spring 2015)

International marketing

International Marketing in Business Networks, 5 credits (Autumn 2014)
Intercultural Marketing Management, 5 credits (Autumn 2014)
Intercultural Marketing Management: seminars, 5 credits (Spring 2015)
Supply Chain Management, 5 credits (Spring 2015)

Accounting

In order to participate in courses in Accounting, the student is expected to be an accounting major and have passed basic level courses in accounting for the Bachelor level (2-3 years) both in financial and management accounting before entering the master level.

Bachelor level:

Cost Accounting

310081.0

5 credits

Intermediate level (Bachelor/undergraduate, year 2-3)

Lectured course

Offered: Autumn 2014

Lecturer: Natalia Semenova

Prerequisites: The student is expected to be an accounting major and have passed basic courses both in financial and management accounting.

Aim: Provide a rigorous understanding of cost accounting for internal reporting and control and deepen students' ability to apply accounting methods in a practical context.

Contents: Main topics focus on contemporary principles and techniques involved in determining costs and understanding cost behaviour over varying conditions.

Forms of assignments: Lectures and web-based assignments in accordance with the requirements for the Certified Management Accountant (CMA) exam. All assignments need to be completed on the appropriate due date. No final examination. Literature: Drury C., Management and Cost Accounting, 7th edition.

Articles related to the topic chosen by the instructor.

Financial Accounting – A User Perspective

310083.0

5 credits

Intermediate level (Bachelor/undergraduate, year 2-3)

Lectured course

Offered: Autumn 2014

Lecturer: Dr Jonas Spohr

Prerequisites: A basic course in Financial Accounting

Aim: Focus on the use of financial information for non-specialists from an international accounting perspective.

Contents: Fundamental principles of accounting, primary financial statements and valuation, corporate governance and financial reporting for capital markets.

Forms of assignments: Lectures, assignments, written cases and final examination.

Learning outcomes:

After completing the course, the student will be able to

- provide a basic understanding of financial statement information rather than bookkeeping mechanisms
- illustrate and explain accounting concepts, such as earnings, operating cash flows and EBIT
- provide tools for company valuation
- understand the framework for IFRS

Literature: Kothari, J and Barone, E. Financial Accounting: An International Approach, FT Prentice Hall

Assignments chosen by the instructor.

Master level:

Value Based Management Accounting
310130.0

5 credits

Intermediate level/Advanced level (Bachelor/undergraduate or Master/graduate, year 3-4)

Lectured course

Offered: Autumn 2014

Lecturer: Dr Jonas Spohr

Prerequisites: The student is expected to be an accounting major and have passed intermediate level courses (2-3 years) both in financial and management accounting.

Aim: Prepare for professional careers in accounting by exploring contemporary issues in the practice of management accounting and control.

Contents: The primary emphasis will be on the value creating function of management accounting and case-based discussions.

Forms of assignments: Lectures, written cases and final examination.

Literature: Kaplan R. S. and Norton D. P. Strategy maps converting intangible assets into tangible outcomes. Harvard Business School Press, last ed.

Kaplan R. S. Cost & effect: using integrated cost systems to drive profitability and performance. Harvard Business School Press. last ed.

Articles related to the topic chosen by the instructor.

Economics

Studies in economics are divided into three levels: basic, intermediate and advanced. In order to participate in courses at the intermediate level (for Bachelor's level studies), students should have passed introductory courses in economics. As for the advanced level courses (for Master's level studies), participants are expected to have studied economics to the intermediate level prior to attendance. When interpreting whether applicants meet these requirements, due consideration is given to each student's ability to successfully attend the indicated course. Please note, reading lists are not necessarily exhaustive.

Bachelor level:

Economics of development: a global perspective
350044.0

5 credits

Basic/Intermediate level

Lectured course

Offered: Autumn 2014

Prerequisites: Introductory course in economics

Assessment: Essays

Target year: 2-3

Lecturers: Christer Lindholm and Jan Otto Andersson

Contents: The course will take a global perspective of economics and development. It will contain a general overlook of economic growth and development, poverty and inequality in a global context.

Aim: The goal of this course is to understand economic development by using economic theories and their applications.

Learning outcomes: To understand economic development with the help of economic theories and their applications.

Teaching methods: Lectures and essays.

Literature: Sen, Amartya (1999) Development as Freedom. New York: Knopf.

Collier, Paul (2007) The Bottom Billion. New York: Oxford University Press.

Master level:

Game Theory
350217.0

5 credits

Advanced level

Self-study course

Offered: Autumn 2014, Spring 2015

Prerequisites: Intermediate level studies in mathematical economics

Assessment: Written exam

Target year: 4-5

Examiner: Margrét Halldórsdóttir

Contents: Formulation of basic concepts. The maximin and minimax strategies, solutions of zero-sum games, pure and mixed strategies, dominance, Nash equilibria, etc.

Aim: To give an introduction to the theoretical framework of mathematical concepts in Game Theory.

Learning outcomes: After a passed course the student is expected to be able to:

- master and use the central concepts in Game Theory
- apply the course techniques and theory to solve problems

Teaching methods: Self-study course. If you want to complete the course sign up for examination in MinPlan. Contact examiner for further information.

Literature:

Stahl, Saul (1999) A Gentle Introduction to Game Theory. Providence: American Mathematical Society.

Osborne, Martin J. (2009) An Introduction to Game Theory. Oxford: Oxford University Press.

And possibly other literature chosen by the examiner.

Information Studies

Information Studies offers students the opportunity to engage with key issues in contemporary library and information science (LIS). The courses provided encompass and explore areas such as information and knowledge management, knowledge organisation, webometrics, information seeking, behaviour and literacy. Students will gain insights into the how these areas have become increasingly important in both the public and the private sector.

Studies can be undertaken at Bachelor's and Master's level. Courses are further divided into three levels which declare the appropriate year of study: basic (1 year students), intermediate (2-3 year students) and advanced (4-5 year students). When interpreting whether applicants meet these requirements, due consideration is given to each student's ability to successfully attend the indicated course. Please note, reading lists are not exhaustive.

Bachelor level:

The Social Web
361120.0

5 credits

Intermediate level

Lectured course

Offered: Autumn 2014

BUSINESS AND ECONOMICS

Prerequisites: None

Assessment: Written exam, assignments, participation

Target year: 2

Lecturer: Dr Kim Holmberg

Aim: To give students knowledge about certain characteristics of the social web; to give insights into the role of the information specialist when developing interactive media; to present tools for production of interactive media and give basic knowledge of their use.

Contents: Library 2.0/Web 2.0; content management systems (CMS) and publication tools; blogs, wikis, RSS-feeds, social online networks; cyber threats; copyright online; virtual 3D worlds.

Literature:

Safko, Lon & Brake, David K. (2009) *The Social Media Bible*. Hoboken: John Wiley & Sons.

And articles related to the topic chosen by the lecturer.

Informetrics

361118.0

5 credits

Intermediate level

Lectured course

Offered: Spring 2015

Prerequisites: Basic studies in information studies

Assessment: Written exam, assignments

Target year: 2–3

Lecturer: Dr Kim Holmberg

Aim: To give theoretical and practical insights into methods and research tools used in informetrics.

Contents: Quantitative analysis and evaluation of data/information and knowledge; visualisation of data/information; webometrics; bibliometrics.

Literature: Thelwall, Mike (2004) *Link Analysis: An Information Science Approach*. Amsterdam: Elsevier.

And articles related to the topic chosen by the lecturer.

Master level:

Participatory information services

361224.0

5 credits

Advanced level

Lectured course, Self-study course

Offered: Autumn 2014

Prerequisites: Basic and intermediate studies in information studies or closely related fields

Assessment: Papers

Target year 4–5

Lecturer: Dr Isto Huvila and Maria Kronqvist-Berg

Aim: To give knowledge about the planning and management of participatory information services; to give students insights into the theoretical aspects of the participatory paradigm of information services.

Contents: Participatory information management; participatory information services; Library 2.0/Web 2.0; Participatory librarianship; Online information communities

Learning outcomes:

To give knowledge on the planning and management of participatory information services

To give insights into the theories of participation and cultures of participation

To give knowledge on specific characteristics of participatory information infrastructures

Teaching methods: Lectures, paper, seminars

Literature:

Bryson, Jo (2006) *Managing Information Services: A Transformational Approach*. Aldershot: Ashgate.

Casey, Michael E & Savastinuk, Laura C. (2007) *Library 2.0: A Guide to Participatory Library Service*. Medford, N-J.: Information Today

Huvila, Isto (2002) *Information Services and Digital Literacy: In Search of the Boundaries of Knowing*. Oxford: Chandos.

Shachaf, P. (2010) *Social Reference: Toward a Unifying Theory*. *Library & Information Science Research*, 32 (1), 66-76.

Information Management in digital environments

361206.0

5 credits

Advanced level

Self-study course

Offered: Autumn 2014

Prerequisites: Basic and intermediate studies in information studies/LIS

Assessment: Papers

Target year: 4–5

Examiner: Dr Isto Huvila

Aim: To give insights into the impact of the introduction of digital technologies and digitisation of information in organisations; to give knowledge of contemporary cultures of information and impact of cultural and societal discourses and practices on organisations and individuals; to give students knowledge about how information behaviour and interaction in information processes can affect information architecture and the design and usability of systems; to give insights into the use of digital information and technologies in different organizations.

Contents: Digitisation of information; digital technologies in organisations, theories of information society and culture; management of information processing in digital information environments; enterprise level information architecture; information interaction; information behaviour and digital information systems.

Learning outcomes:

- Have knowledge of theoretical aspects and consequences of digitisation of information processes and resources
- Have knowledge of theoretical and societal aspects and consequences of the digitisation of information management
- Have indepth insights into the management of digital information in a specific context
- Have knowledge of the methods of and approaches to digitisation, management and preservation of digital information

Teaching methods: Lecture, seminar, project work

Literature:

Grudin, J. (2011) *Human-computer Interaction*. *ARIST*, 45 (1), 367-430.

Hassan, Robert (2008) *The Information Society*. Cambridge: Polity.

Martin, A.; Dmitriev, D. & Akeroyd, J. (2010) *A Resurgence of Interest in Information Architecture*. *International Journal of Information Management*, 30 (1), 6 - 12.

Norman, Donald A. (1990) *The Design of Everyday Things*. New York: Doubleday.

Rogers, Yvonne (2004) *New Theoretical Approaches for Human-computer Interaction*. *ARIST*, 38 (1), 87-143.

Tredinnick, Luke (2008) *Digital Information Culture: The Individual and Society in the Digital Age*. Oxford: Chandos.

Information Management**361213.0****5 credits****Advanced level****Lectured course, Self-study course****Offered: Spring 2015**

Prerequisites: Basic and intermediate studies in information studies or business administration

Assessment: Paper, assignments, project (group work)

Target year: 4–5

Lecturer: Prof. Gunilla Widén

Aim: To give theoretical and practical insights into the role of information and Information Management (IM) in organisations.

Contents: The typology of information in organisations, the information behaviour of organisations, theories of Knowledge Management, the social dimension of knowledge creation, theories about learning organizations and presentation of current research within the IM-field.

Learning outcomes: After the course the student has knowledge on information typologies in organisations, information behaviour in organisations and information cultures. The course also covers the theoretical framework of knowledge management, social dimensions of knowledge creation and social capital. Current research in information and knowledge management is discussed, compared and applied to an actual organisation.

Teaching methods: The course is web-based (Moodle) with four meetings (lectures and seminars), a group work and presentation and an individual assignment.

Literature:

Case, Donald O. (2007) Looking for Information: A Survey of Research on Information Seeking, Needs and Behavior. Amsterdam: Elsevier.

Choo, C. W. et al. (2008) Information culture and information use: an exploratory study of three organizations. Journal of the American Society for Information Science and Technology, 59 (5), 792-804.

Dalkir, Kimiz (2009) Knowledge Management. In: Eds. Bates & Maack, Encyclopedia of Library and Information Sciences. London: Routledge (pp. 3129-3138)

Detlor, Brian (2009) Information Management. In: Eds. Bates & Maack, Encyclopedia of Library and Information Sciences. London: Routledge (pp. 2445-2451)

Tredinnick, Luke (2008) Digital Information Culture: The Individual and Society in the Digital Age. Oxford: Chandos.

Widén-Wulff, Gunilla (2007) Challenges of Knowledge Sharing in Practice: A Social Approach. Oxford: Chandos.

International Marketing

International marketing studies the relationship between the firm and its international markets. Global marketing, where market borders are no longer regional or national, but global is especially pointed out. The subject focuses on strategic market management, Business-to-Business marketing and business activities in Europe, the Americas and in Asia as well as in other emerging markets. International marketing equips the student to understand and manage business firms where products, services and markets are both physical as well as information based.

<https://www.abo.fi/student/en/imfкурser>

Introduction to Marketing**305191.0****10 credits****Basic level, please see entry requirements****Lectured course****Offered: Autumn 2014**

Lecturer: Johanna Lindström

Target audience: Bachelor/undergraduate, year 1 or 2

Entry requirements: Preference is given to students participating in "Werbung Interkulturell"

Aim: This course is an introduction to the theory and application of marketing. Marketing topics covered include customer needs, strategy and product development. The course combines cases, discussions and readings to provide a mix of integrating concepts.

Learning outcomes:

In this course we seek to:

1. introduce you to key marketing ideas and phenomena
2. develop your skills in analysing and planning marketing activities and strategies
3. familiarize you with the core concepts in marketing: product, price, place and promotion and enhance your problem solving and decision making abilities in these areas
4. provide you with a forum, both written and oral, for presenting and defending your own recommendations and critically examining and discussing those of others

Literature:

Kotler Philip et al. Principles of Marketing. 3rd, 4th or 5th European Edition

Cateora et al. International marketing. European Edition 2000 chap: 1, 5-9, 11-18 or Ghauri-Cateora International Marketing second edition chap. 1-2, 4-5, 7, 10-19

Articles and cases related to the topic, chosen by the instructor

International Business: a European perspective**305042.0****5 credits****Intermediate level (undergraduate, year 2 or 3)****Offered: Autumn 2014**

Lecturer: DSc Monica Nyholm and PhD Stefan Lång

Entry requirements: Basic course in international marketing, international business, economic geography or similar.

Target audience: year 2 or 3

Aim: During the course Europe is studied from the perspective of its being the most important market for Finnish companies. The European business environment is studied with particular focus on factors affecting marketing and investment. Analysis of similarities and dissimilarities between countries and regions are included as well as internationalisation strategies used by the companies on European markets.

After the course, the participant should be able to:

- explain the meaning of the concept international business environment.
- describe the general internationalization theories.
- understand the impact of the international business environment on the company on a basic level.
- explain the main differences in the business environment between different parts of Europe.

Work methods:

The course is mainly web-based with three study meetings à 3 hours. The study meetings all include lectures as well as workshop-discussions. Examination is done based on the exercises performed on the web (individual as well as group reports, discussions and quizzes) as well as activity during the workshops.

Literature:

BUSINESS AND ECONOMICS

Morrison, Janet (2006): The International Business Environment, Global and Local Market Places in a Changing World, 2. Ed. Palgrave Macmillan, New York.

Suder, Gabriele (2011): Doing business in Europe, 2. Ed., Sage Publications, London.

Articles chosen by the instructor

B2B-marketing in an international context

305043.0

5 credits

Intermediate level (undergraduate, year 2 or 3)

Offered: Autumn 2014

Lecturer: DSc Monica Nyholm and P hD Stefan Lång

Entry requirements: Basic course in international marketing, international business, economic geography or similar.

Target audience: year 2 or 3

Weeks 44 - 49

Study meetings: Thursdays at 9.15 - 12, dates: 31.10, 14.11, 5.12

Aim: The course aims at providing an understanding of business-to-business marketing while also discussing the impact of the growing interdependence between different geographical markets in a global context.

After the course, the participant should be able to:

- explain the meaning and application of the concept business-to-business marketing
- understand the main differences between B2B-marketing and B2C-marketing
- describe the impact of the international business environment on B2B-marketing
- evaluate and compare the business environment in different geographical markets on a basic level

Work methods:

The course is mainly web-based with three study meetings á 3 hours. The study meetings all include lectures as well as workshop-discussions. Examination is done based on the exercises performed on the web (individual as well as group reports, discussions and quizzes) as well as activity during the workshops.

Literature:

Dicken Peter (2011): Global Shift, mapping the changing contours of the world economy, 6.ed. Thousand Oaks, CA.

Articles chosen by the instructor.

Sustainable Business

305061.0

5 credits

Intermediate level (undergraduate, year 2 or 3)

Lectured course

Offered: Spring 2015

Lecturer: DSc Monica Nyholm

Aim: The aim is to enhance the participants' knowledge of sustainability issues within business activities and business enterprises' views on sustainable development; among other ethics, environmental issues and social responsibility. During the course we discuss the ways in which business activities can accommodate the demands for sustainability set by customers, authorities and other interest groups.

1. Sustainable organization
2. Sustainability in financing and reporting
3. Sustainable marketing and logistics

Learning outcomes:

1. Explain the concept of sustainable business from the business perspective.
2. Analyze the demands for sustainability that are set for the organization by different interest groups.
3. Describe the sustainability efforts from a supply chain

perspective.

4. Understand the industry and market specific pre-requisites for sustainable business

Literature:

Belz Frank-Martin and Ken Peattie: Sustainability Marketing, Wiley 2009

Articles and case studies recommended by the examiner.

Master level:

International Marketing in Business Networks

305131.0

5 credits

Advanced level (Master/graduate, year 3 or 4)

Lectured course

Offered: Autumn 2014

Lecturer: Professor Jan-Åke Törnroos

Entry requirements: Alternative advanced course for students in international marketing, optional for others with the required preknowledge

Aim(s): This course is aimed at those who want to gain a better understanding of how business markets work, and what marketing problems companies operating in such markets confront. The emphasis is on the impact the distinctive features of business markets have on companies' market strategies, marketing activities, and international and global business. A value-based approach is used for analysing different elements of business interaction and networking.

Content: Business-to-business (B2B) markets differ from consumer markets in several ways. For example, professional business people are acting on both sides of the business exchange and the actors involved are often embedded in business network structures. Furthermore, large volumes and high monetary value are exchanged between business actors, and for many companies the largest share of business exchange deals with various kinds of services. This implies several challenges for the actors and the marketing on the B2B market.

Teaching methods:

Lectures, guest lectures, seminars based on written article reviews and oral presentations and discussions, written course-paper, supervision

Form of assessment:

Written course-paper and seminars (written reviews, presentations and discussions)

Literature:

Bridgewater Sue and Colin Egan: International Marketing Relationships, Palgrave, London 2001

Anderson J. C. & J. Narus: Business Market Management. Understanding, Creating and Delivering Value, Prentice Hall Inc., New Jersey, 1999

Articles related to the topic chosen by the instructor

Intercultural Marketing Management

305121.0

5 credits

Advanced level (Master/graduate, year 3 or 4)

Lectured course

Offered: Autumn 2014

Lecturer: PhD Stefan Lång

Entry requirements: Alternative advanced course for students in international marketing, optional for others with the required preknowledge

Aim(s): The aim of the course is to deepen the knowledge of cultural factors in international marketing from a theoretical and practical point of view. The course includes central themes like understanding culture and intercultural issues

in the international and global marketplace, doing business and marketing across cultural borders, the impact of cultural similarities and differences on marketing communications as well as on expatriation and repatriation management, and managing and working in intercultural teams.

Content: Culture affects every company on a daily basis. As a consequence of the globalisation and the ever more connected world we live in, even the smallest and most locally anchored company will sooner or later have to consider and deal with intercultural issues. For companies doing business abroad, these issues become a more prominent part of their operations, and for global companies this is a part of their everyday operations on several different levels. Intercultural marketing management is an interesting area of research that creates several challenges to all of these companies. In this course, the area of intercultural marketing management is divided into a few central thematic concepts that are discussed and analysed from different perspectives.

Teaching methods:

Guest lectures, lectures, thematic workshops (based on article reviews and case discussions), individual learning diary and course-portfolio, supervision

Form of assessment: Workshops, individual written assignments and portfolio

Course literature:

Adler, Nancy J. & Allison Gundersen (2008): International dimensions of organizational behavior (5th edition), Thomson/South-Western, Mason

Usunier, J-C. & Julie Ann Lee (2005): Marketing Across Cultures (4th edition), Prentice Hall, New York

Articles and cases related to the topic, chosen by the instructor

Intercultural Marketing Management: seminars

305122.0

5 credits

Advanced level (Master/graduate, year 3 or 4)

Lectured course

Offered: Spring 2015

Lecturer: PhD Stefan Lång

Entry requirements: Intercultural Marketing Management 305121.0

Target audience: Master/graduate, year 3 or 4

Entry requirements: Preference is given to students participating in "Werbung Interculturell"

Aim: The aim is to complement the theoretical knowledge gained in the first part of the course by analysing and solving practical problems concerned with intercultural marketing management. This is done by a role play situation where one team takes on the role as managers facing a difficult intercultural problem, and another team takes on the role as consultants that are hired to solve the problem. As the teams are all intercultural, this is also a practical exercise in working in and managing intercultural teams. The solution to the intercultural problems is presented in a written course-report as well as in an oral presentation.

Methods: Role play, case analysis, written reports and oral presentation

Form of assessment: Assignments and presentations

Learning outcomes:

After the course, students will:

1. implement theoretical knowledge of intercultural issues in practical situations
2. understand how to distinguish and solve potential problems within intercultural marketing management processes
3. be able to work in and manage intercultural teams
4. present analyses and results in writing as well as orally

Literature:

Adler, Nancy J. & Allison Gundersen (2008): International dimensions of organizational behavior (5th edition), Thomson/South-Western, Mason

Usunier, J-C. & Julie Ann Lee (2005): Marketing Across Cultures (4th edition), Prentice Hall, New York

Articles related to the topic, chosen by the instructor and the students.

Supply Chain Management

305132.0

5 credits

Advanced level (Master/graduate, year 3 or 4)

Lectured course

Offered: Spring 2015

Lecturer: Dr Monica Nyholm

Aim(s): The objective of the course is to provide students with an understanding of the integration within the supply chain and management of logistical activities. Logistics outsourcing as well as the formation of alliances in business logistics are also included.

Contents: Assignments, case studies and written examination.

Entry requirements: Intermediate studies in international marketing/marketing

Target audience: year 3 or 4

Form of assessment: Written examination and assignments (Cases, paper and presentation).

Contact hours: 30 hours: 24 hours lectures and 6 hours compulsory case discussions

Course literature:

Christopher, Martin and Helen Peck: Marketing logistics, Oxford: Butterworth-Heinemann, 2003

Gourdin, Kent N: Global logistics management: a competitive advantage for the new millennium, Blackwell 2001

Dam Jespersen, Birgit & Skjøtt-Larsen Tage: Supply Chain Management, Copenhagen Business School Press 2005

Articles and material related to the topic chosen by the instructor

Organisation and Management

Bachelor level:

Knowledge Management

301031.0

5 credits

Intermediate level

Lectured course

Offered: Autumn 2014

Lecturer(s): TBA

Aim(s): The course presents advanced theories in knowledge management, with a specific focus on knowledge-intensive companies. Consequently, the course presents contemporary developments in knowledge management. The course aims at giving the participants an understanding of the complex nature of knowledge-intensive work.

Contents: The course presents the current state-of-the-art in knowledge management. Specific emphasis is placed on the interrelationship between the two, and the demands placed in strategy in a knowledge-intensive economy. Specific themes include:

- emergent strategy

CHEMICAL ENGINEERING

- knowledge management and business logics
- innovative strategies
- the creative economy
- utilizing knowledge
- social theory in knowledge management

Learning outcomes:

After the course, the participant should be able to:

- demonstrate knowledge of the central theories in knowledge management
- critically discuss and analyze processes in knowledge-intensive companies
- independently conduct a study of knowledge workers
- draft a strategy for managing knowledge-intensive work
- write a research paper on a specific theoretical subject in knowledge management

Target audience: The course is open to students with organization and management or international marketing as their main subject, as well as to other students with the required prerequisites.

Group size: 20 students max.

Creative business and the creative economy

301080.0

5 credits

Intermediate level

Lectured course

Offered: Autumn 2014

Lecturer: Astrid Huopalainen

Aims: The course gives an insight into both the theorization and the practice of creativity and creative work in contemporary economy. The course introduces the participants to key themes in creative work, the creative industries, notions of creative cities/regions and the creative economy in general. Through both theoretical and empirical engagements, the course emphasizes the importance of understanding how creativity and innovation create value and the way in which this can be managed in organizations. Further, the course presents the state-of-the-art theories of this transformation, aiming to give the participants a multifaceted understanding of the problems and possibilities of the creative economy.

The course presents the key current discussions regarding understanding the role of creativity in business and the economy. Specific emphasis is placed on how creativity has become a key strategic resource and a central arena for discussing business policy. Further, the importance of understanding the dynamics of the creative industries and their relationship to the development of economic frameworks is highlighted. Specific themes include:

- creativity and innovation as economic drivers
- defining creativity and delineating the creative industries and the creative economy
- the organization of creative work
- key areas of the creative economy
- creative strategy
- the challenges of "the creative turn"

Learning outcomes: After the course, the participant should be able to:

- critically discuss, analyze and demonstrate knowledge how creativity and innovation create value and the way in which this can be managed
- demonstrate an understanding of the complex nature of creative work and the creative economy

Forms of assignments: Lectures, written reports and exercises

Literature: Articles and other material according to instructions.

Chemical Engineering

Analytical Chemistry

Analytical Chemistry is defined by the Division of Analytical Chemistry (DAC) of the Federation of European Chemical Societies (FECS) as follows:

Analytical chemistry is a scientific discipline that develops and applies methods, instruments and strategies to obtain information on the composition and nature of matter in space and time.

Knowledge and experience in analytical chemistry is needed to cope with global challenges related to e.g. alternative energy systems, public health, food production and supply of clean water. A large number of chemical analyses provide information that has a great impact on our society, and analytical chemists develop tools for these analyses. New analytical methods, instruments and strategies are continuously developed and applied in important areas like clinical-, environmental- and process analysis. In addition to sophisticated analytical instrumentation, there is a need for inexpensive analytical tools such as chemical sensors, that are easy to use on a large scale in various fields of applications.

The Laboratory of Analytical Chemistry provides education that covers the basic principles of classical analytical methods (including complexometry) and instrumental methods of analysis (including spectroscopy, chromatography and electroanalytical chemistry). Our courses are offered in the form of lectures, supervised self studies and exercises.

Advanced courses for both undergraduate and post-graduate students are offered in selected areas that are close to our own research activities. Our present research activities include the development of chemical sensors, with special emphasis on electrochemical sensors, such as ion-selective electrodes. This is supported by our electrochemical and spectroelectrochemical characterization of electroactive materials including conducting polymers, fullerenes, carbon nanotubes and graphene. Electroactive materials are important not only for sensors, but also for the development of new charge storage devices, solar cells and electrochemically controlled separation membranes. Our present research is focused also on ion-exchange reactions and complexation of metal ions to wood fibers. Application of analytical methods in process analysis, environmental monitoring and health diagnostics are close to our hearts.

The research at the Laboratory of Analytical Chemistry is part of the activities of Åbo Akademi University Process Chemistry Centre (PCC).

Basics in Analytical Chemistry

410110.0

5 credits

Intermediate level

Lectures and laboratory exercises

Offered: Autumn 2014

Lecturer: Tom Lindfors

Target audience: Year 3
Aim and contents: The course gives an introduction to general analytical chemistry and skills to take part in the course

"410302 Chemical and instrumental methods of analysis". General principles of chemical analysis, analytical applications of solubility equilibria, acid-base, redox and complexometric equilibria and calculations, acid-base titrations (titration errors, choice of indicators, logarithmic diagrams for different acid-base pairs, proton balance) will be discussed in the course. Material will be provided concerning some general instrumental methods of analysis (potentiometry, spectrophotometry, atomic spectroscopy (AAS = atomic absorption spectroscopy and ICP-OES = inductively coupled plasma optical emission spectroscopy)). The instrumental methods part of the course will be self-studies.

Learning objectives: After taking part in the course Basics in analytical chemistry the student should:

- comprehend the theory that has been gone through during the course and apply that in practical laboratory works as well as in calculations.

- be able to produce experimental results in form of graphs and to summarize that in a written report.

Prerequisites: General Chemistry

Format: Lectures 12 h, supervised self-studies and laboratory exercises

Form of assessment: Written examination

Course literature: Steven and Susan Zumdahl, Chemistry, 6th ed., Houghton Mifflin, ISBN: 0-618-61032-4; Harris, D.C., Quantitative Chemical Analysis, 8th ed., Freeman, ISBN: 0-7167-7041-5; "Konstantsamlingen" (book of stability constants); Anders Ringbom, Complexation in Analytical Chemistry (booklet)

Applied electrochemistry

410304.0

5 credits

Advanced level

Lectures and self-study

Offered: Autumn 2014

Lecturer(s): Johan Bobacka (and invited lecturers)

Target audience: Year 4

Aim and contents: The aim of the course is to give students basic knowledge in electrochemistry and an introduction to current applications of electrochemistry. The course contains electrochemical methods of analysis, electroactive materials, electrosynthesis, power sources and solar cells.

Learning objectives: Students can describe electrochemical reactions at metal and semiconductor electrodes. Students can describe the electrical double layer. Students can explain the basic principles of conductometry, potentiometry, voltammetry, electrochemical impedance spectroscopy and scanning electrochemical microscopy. Students can describe and give examples of electroactive materials and current applications of electrochemistry in fuel cells, solar cells, supercapacitors, batteries, electrosynthesis and electrochemical sensors.

Format: Lectures (16 h), self-study, laboratory exercises

Form of assessment: Written examination

Course literature: Allen J. Bard and Larry R Faulkner, Electrochemical methods: fundamentals and applications, 2nd edition (and material provided by the lecturers)

Chemical and Instrumental Methods of Analysis

410302.0

7 credits

Intermediate level

Lectures and exercises

Offered: January-February 2015

Lecturer: Rose-Marie Latonen

Target audience: Year 3

Aim and contents: The course is a continuation of the "410110 Basics in Analytical Chemistry" course within the subject of analytical chemistry. The course gives an introduction to the theoretical background for the most common liquid based and instrumental methods of analysis and their analytical applications. The basic principles of extraction and ion exchange analysis and their analytical applications are presented. The course gives also the basic knowledge for use of different common instrumental methods of analysis. Within spectrophotometry UV-visible, FTIR and Raman spectroscopy techniques are presented. Different electrochemical methods such as potentiometry, voltammetry and amperometry are included. Different kinds of chromatographic methods: high performance liquid chromatography, ion chromatography and capillary electrophoresis are taken up and the theory of flow injection analysis is gone through. Calculation exercises and some laboratory exercises are included in the course.

Learning objectives: After a passed course the student is expected to be able to:

- apply the theory of extraction and ion exchange analysis in order to be able to calculate the efficiency of a separation.

- describe the basic principles of and instrumentation in the spectrophotometric analysis techniques, UV-visible, FTIR and Raman spectroscopy.

- explain the basic principles of the electrochemical analysis techniques, potentiometry, voltammetry and amperometry.

- discuss the differences between the chromatographic techniques, HPLC, ion chromatography and capillary electrophoresis.

- present the principle of flow- and sequential injection analysis.

- individually explain the theory, methods, results and evaluation in a written report for each practical exercise performed in the laboratory.

Prerequisites: 410110 Basics in analytical chemistry (5 cr)

Format: Lectures 14 h, supervised self-studies with practicals 4h, seminar work with presentation and laboratory exercises.

Form of assessment: Examination

Course literature: Daniel C. Harris, Quantitative Chemical Analysis, 8th edition

Chemical sensors

410522.0

5 credits

Advanced level

Lectures and laboratory exercises

Offered: Spring 2015

Lecturers: Andrzej Lewenstam, Johan Bobacka, Tomasz Sokalski

Target audience: Year 5

Aim and contents: The aim of the course is to give students deep insight into chemical sensors and their practical applications. The course deals with basic principles of different types of chemical sensors based on electrochemical, optical, mass and thermal transduction. Electrochemical sensors and their applications in clinical and biomedical analysis are emphasized. Modelling of the response of ion-selective membranes is briefly introduced.

Learning objectives: Students can describe the operation principles for chemical sensors based on electrochemical, optical, mass and thermal transduction. Students can explain the operation principle of potentiometric, amperometric and conductometric sensors and give examples of their applications. Students can give examples of chemical sensors based on conducting polymers.

Format: Lectures (24 h) and laboratory exercises

CHEMICAL ENGINEERING

Form of assessment: Written examination
Course literature: Material provided by the lecturers.

Process analytical chemistry

410508.0

2 credits

Advanced level

Lectured course

Offered: Spring 2015 (offered every 2nd year)

Target audience: Year 4-5

Lecturer(s): Johan Bobacka

Aim and contents: The aim of the course is to give students knowledge about instruments and methods which are used for analysis of different compounds in industrial processes.

Learning objectives: Students can explain the importance of sampling and sample transport in process analysis. Students can explain the differences between off-line, at-line, on-line, in-line and non-invasive methods in process analytical chemistry. Students can predict the suitability of different analytical methods for monitoring and control of industrial processes.

Format: Lectures 16 h

Form of assessment: Written examination

Seminars in Analytical Chemistry

410517.0

5 credits

Advanced level

Lectures

Offered: Spring 2014

Contact person: Johan Bobacka

Target audience: Year 4-5

Aim and contents: The aim of the course is to familiarize students with the newest trends in analytical chemistry.

Learning objectives: Students identify the major research areas at the Laboratory of analytical chemistry and can relate these to the newest trends in analytical chemistry.

Format: lectures 12 h

Prerequisites: Chemical and Instrumental Methods of Analysis (410302.0, 7 cr)

Form of assessment: Course diary, Essay

Course literature: Material provided by the lecturers.

Special Project in Analytical Chemistry

410523.0

10 credits

Advanced level

Independent research exercise

Offered: the whole academic year, in accordance with the lecturer

Contact person: Johan Bobacka

Target audience: Year 5

Aim and contents: The aim of the course is to familiarize students with analytical chemistry research. The student participates as a research affiliate in one of the ongoing research projects under supervision of a doctoral student or senior researcher. The student writes a report based on the results obtained.

Learning objectives: The student can perform demanding laboratory work. The student can describe the theoretical background to the experimental work. The student can summarise the results and compare them with results from scientific publications.

Prerequisites: 410302 Chemical and instrumental methods of analysis (7 cr)

Format: Supervised research work

Form of assessment: Written report

Course literature: Selected scientific publications

Fibre and Cellulose Technology

The research and education area of Fibre and Cellulose Technology can be summarised as Biomass Engineering, where biomass (wood and plants) is the raw material that is to be processed by engineering. In Fibre Technology, the production, characterisation and tailoring of natural fibres for pulp and composites are studied in detail. The education in Cellulose Technology is focused on pure cellulose and its derivatives, which are utilized to manufacture many advanced high-added-value products, chemicals and bioplastics. Both subjects of the laboratory facilitate the use of nanoscale spectroscopic and imaging techniques for nano analysis, which also have a key position in the education.

The courses at intermediate level introduce the students to the technologies to obtain fibres from biomass, including bleaching and fibre modification. The advanced courses concentrate more on the chemistry and interactions on the microscopic level as well as the pretreatment and fractionation of biomass to fibres, cellulose and chemicals and utilisation of these in various products. The aim of the supervised project/laboratory work course is to familiarize the student to practical scientific work and analytical treatment of measuring data. The laboratory work is also suitable for exchange students with the prerequisites of basic knowledge in either chemical processes, chemical or physical modifications, or characterisation of biomass or natural fibres.

For further information please visit our web pages at: www.abo.fi/fct

Fibre Technology

415310.0

7 credits

Intermediate level

Lectured course

Offered: Autumn 2014

(First lecture 30.10.2014 at 10 am in FCT Sem. room.)

Lecturers: Jan Gustafsson, Pedro Fardim

Type: Lectured course with seminars and laboratory exercises

Aim and content: The manufacturing, technology, properties and treatment of wood fibres to pulp. The topics are fibre raw materials, fibre properties, fibre characterisation, wood handling processes, mechanical pulping (PGW, TMP, CTMP), chemical pulping (kraft pulping), bleaching of pulp fibres, LC-refining and recycling.

Learning objectives: After the course is finished the student is expected to be able to identify and compare different raw materials and processes for wood handling, mechanical pulping, chemical pulping and post treatment of fibres as well as for recovered fibres.

Entry requirements: Basic knowledge of wood and fibre chemistry

Target audience: Year 1-2 (Master)

Form of assessment: Written exam, written essay and laboratory report

Contact hours: 24

Literature:

- 1) Gullichsen, J., Fogelholm, C.-J., Chemical Pulping, Fapet Oy, Helsinki, 1998
- 2) Sundholm, J., Mechanical Pulping, Fapet Oy, Helsinki, 1998
- 3) Selected research articles, lecture slides.

Biomass pretreatments and fractionation technology

415801.0

4 credits

Advanced level

Lectured course

Offered: September- October 2014

Lecturers: Pedro Fardim, Jan Gustafsson

Aim and content: To give the students advanced understanding of the biomass (wood and annual plants) as a raw material, different pre-treatment concepts, fractionation theories, the technology to prepare bio-based products and the tools for their characterisation. New concepts for biomass utilization are discussed from a chemical, physical and technological approach.

Learning objectives: After the course is finished the student is expected to be able to define the basic principles for production of bio-based products from biomass as well as to be able to distinguish the potentials and the limits of the raw materials for biomass. The critical evaluation of current and prospective technologies and identification of suitable characterisation methods are also expected.

Entry requirements: Knowledge in wood and fibre chemistry

Target audience: Year 2-3

Form of assessment: Examination

Contact hours: 20

Chemistry of interfaces for fibre based materials

415802.0

5 credits

Advanced level

Offered: November-December 2014

Lecturers: Pedro Fardim, Jan Gustafsson

Type: Lectured course with essay and seminars

Aim and content: To give the students a deep understanding of the chemistry, morphology and thermodynamics of the interfaces of fibres and fibre based materials and the tools to characterize them by using chemical and physicochemical approaches.

Learning objectives: After the course is finished the student is expected to be able to understand theoretical concepts of interfaces and their relation to processes and characterisation methods for fibre based materials.

Entry requirements: Knowledge in wood and fibre chemistry, and in organic and inorganic chemistry.

Target audience: Year 2-3

Form of assessment: Examination, seminar essay.

Contact hours: 30

Literature:

- 1) Adamson, A.W. Physical Chemistry of Surfaces, 5th ed., Wiley, New York, 1990
- 2) Hunter, R.J. Foundations of Colloid Science, 2nd ed., Oxford, New York, 2001
- 3) Shaw, D.J. Introduction to Colloid and Surface Chemistry, Butterworths, London, 1980
- 4) Selected research articles, lecture slides

Biocomposites

415506.0

4 credits

Advanced level

Lectured course

Offered: January- February 2015

Lecturers: Pedro Fardim, Jan Gustafsson

Type: Lectured course with essay.

Aim and content: To give the students deep understanding of

biocomposites (the matrix and the bio-based reinforcement materials, e.g. cellulose fibres). The focus is on advanced characterisation of the components and how the properties at nanoscale are reflected on macroscale. Both established and arising technologies and areas of application are introduced. Learning objectives: After the course is finished the student is expected to be able to identify the basic physical, chemical and interfacial properties of the matrix and the bio-based reinforcement materials in biocomposites. The student should also be able to define of the main characterisation methods and requirements of biocomposites. Critical evaluation of current and prospective technology and areas of application is also expected.

Target audience: Year 2-3

Form of assessment: Examination, essay

Contact hours: 20

Cellulose Technology

415501.0

5 credits

Advanced level

Lectured course

Offered: March – May 2015

Lecturers: Pedro Fardim, Jan Gustafsson, invited lecturers

Aim and content: The chemical composition of cellulose, the technology for manufacturing of cellulose products and their analytical methods. The topics are cellulose chemistry and physics, cellulose derivatives, dissolution, regeneration, functionalisation and different analysis methods.

Learning objectives: After the course is finished the student is expected to be able to identify the chemistry and physics of cellulose and cellulose derivatives as well as sources for cellulose. The critical evaluation of processing and functionalisation of cellulose and cellulose products is also expected.

Entry requirements: Basic organic chemistry.

Target audience: Year 2-3

Form of assessment: Examination

Contact hours: 20

Literature:

- 1) Kennedy, J. F., Phillips, G.O., Williams, P.A. Cellulose – structural and functional aspects, Ellis Horwood, Chichester, 1989
- 2) Selected research articles, lecture slides

Materials for renewable and sustainable energy

415507.0

4 credits

Advanced level

Lectured course

Offered: March – May 2015

Lecturers: Pedro Fardim, Jan Gustafsson

Type: Lectured course with group work

Aim and content: To give the students a deep understanding of the raw materials and processes available for current and prospective future renewable and sustainable energy sources. The focus is laid on the scientific investigations and advanced characterisation of biomass to be utilised for bioenergy as solid, liquid, gas or electricity. Both established and arising technologies and materials are introduced.

Learning objectives: After the course is finished the student is expected to be able to identify the basic physical and chemical characteristics of materials for renewable and sustainable energy. The student should also be able to define of the main characterisation methods and requirements in conversion of biomass to energy. Critical evaluation of current and prospective technology and areas of application is also expected.

Target audience: Year 2-3

Form of assessment: Written exam, abstract, presentation.

CHEMICAL ENGINEERING

Project work in Fibre and Cellulose Technology **415516.0, 415517.0 and 415518.0**

2-10 credits

Advanced level

Practical supervised laboratory course

Period: Offered as per agreement, September 2014 - May 2015

Contact: Jan Gustafsson

Aim: To give the students practical knowledge about laboratory work and analytical methods in Fibre or Cellulose technology by independent literature survey, laboratory work, data analysis, writing a laboratory report, and oral presentation of the results.

Learning outcomes: After the course is finished the student is expected to be able to apply chosen preparation and analysis methods in Fibre or Cellulose Technology in practice, as well as be able to conclude and evaluate measured data.

Forms of examination: Written report, oral presentation.

Project work in natural materials technology

432501.0

2 credits

Advanced level

Offered: As per agreement, September 2014 - May 2015

Contact: Jan Gustafsson (Fibre- and Cellulose Technology), Mari Nurmi (Paper Coating and Converting), Anna Sundberg (Wood and Paper Chemistry)

Aim: The course is an independent study including literature search, laboratory work or modelling work, as a continuation of any of the courses in natural material technology. Any of the professors or academic lecturers in natural materials technology can act as supervisors.

Learning objectives: The student should after passed course be able to apply theories and describe methods and results in a report according to the instructions of the supervisor.

Forms of examination: Written report

Industrial Chemistry and Reaction Engineering

The subject "Industrial Chemistry and Reaction Engineering" concerns the clean industrial production of biodegradable chemicals through chemical reactions. The important fields are catalysis, chemical kinetics and mathematical modelling of chemical reactors. An extensive course selection is provided from the basic level to postgraduate level. Individual guidance is provided in English.

Principles of Chemical Reaction Engineering

421100.0

5 credits

Basic level, no prerequisites

Lectured course

Offered: Autumn 2014

Lecturer(s): Johan Wärnå

Aim(s): To learn basic principles of chemical reaction engineering

Contents: Basics of chemical kinetics, rate equations and basic modelling of chemical reactors.

Prerequisites: Basic mathematics

Target audience: Year 1 upwards

Form of assessment: Examination

Format: Lectures 36 h

Course literature: T. Salmi, J. Wärnå, J.-P. Mikkola: Bridging chemical reaction engineering and reactor technology, 2007 (compendium)

Reaction Kinetics

7 credits

Advanced level

Lectured course

Offered: Autumn 2014

Lecturer(s): Dmitry Murzin, Tapio Salmi, Johan Wärnå

Contact: Dmitry Murzin

Aim(s): To teach and deeply understand the physical-chemical theories of chemical kinetics

Contents: Rates of chemical reactions, transition state theory, reactions in gas and liquid, chain reactions, polymerisation and catalytic reaction kinetics, reactions of solids.

Prerequisites: Basics of physical chemistry

Target audience: Years 2-4

Form of assessment: Examination

Format: Lectures 50 h

Course literature: Distributed material, D. Murzin, T. Salmi:

Catalytic kinetics, Elsevier 2005

Heterogeneous Catalysis

421300.0

5 credits

Intermediate level

Lectured course

Offered: Spring 2015

Lecturer(s): Dmitry Murzin

Aim(s): To understand the principle of catalysis and the function of heterogeneous catalysis.

Contents: Principles of catalysis, structure and function of heterogeneous catalysts, catalyst characterisation, catalytic kinetics and transport phenomena.

Prerequisites: Principles of physical chemistry

Target audience: Year 3 upwards

Form of assessment: Examination

Format: Lectures 72 h

Course literature: D. Murzin, T. Salmi, and L-E Lindfors: Heterogeneous catalysis 2010 (compendium) and supplementary material.

Industrial Management

Industrial Management focuses on how companies within different industries act in order to achieve competitive edge, profitability and sustainable development with special attention to project business and project management. It concerns a magnitude of issues for research and teaching: from analysis of latest trends in different industries and of the requirements that the modern business environment imposes on industrial supplier to studies of how project-based firms are organized and managed. From the research point of view, we actively engage in developing and testing business models and management processes together with large industrial suppliers. A distinguishing feature for Industrial Management is its normative character, which characterizes both the research and teaching. Unlike natural sciences, we emphasize the creation of real-life knowledge where the continuous development within companies is an important source for the teaching and research. Having active participation of company executives and various industry experts in lectures and seminars constitute an important additional dimension in our courses. Collaboration with industrial firms in order to answer an existing question is an important part

of Master of Science theses that are written at the department of Industrial Management. Recent research projects focus on the patterns of development of project-based companies, competences and capabilities that are required for business success, the importance of customer relations in the project delivery and new ways to manage projects in a turbulent environment of today.

Industrial Project Business

414503.0

10 credits

Advanced level

Lectured course

Offered: Autumn 2014

Lecturer: Johanna Liinamaa and Magnus Hellström

Compulsory course registration through MinPlan. Max. 30 students.

Aim(s) and contents: The course gives an advanced understanding of industrial project business as a means for achieving competitive advantage. By focusing on industrial projects globally and on how they are carried out in an environment where complex new technologies and organizational structures have made the task even more complicated, this course goes through techniques, tools and methods for the management of project networks, project firms, and project business networks. It touches upon the commercial aspects of projects. Topics that are included are: managing project business, project business characteristics, project(s) marketing & sales, business models, implementation models, offering & scopes, functional solutions, project networks & ecosystems, modularity, pricing, project portfolio management. An extensive project business case is an essential part of the course. After examination the student has advanced knowledge about central themes of industrial project business and business models. The student will be able to analyse different parts of industrial project business, individually and in group. The student is able to apply and to propose methods for industrial project business.

Form of assessment: Compulsory assignments and written examination.

Prerequisites: Master's level students who have passed the project management course and who seek to deepen their skills in project business on an advanced level. Necessary qualifications will be checked.

Course literature: Course literature will be announced when the course starts.

Project Management (Industrial management)

414303.0

5 credits

Intermediate level

Lectured course

Offered: Spring 2015

Lecturer: Magnus Hellström and Johanna Liinamaa

Compulsory course registration through MinPlan. Max. 50 students.

Aim(s) and contents: The objective of the course is to develop an understanding of project management, its concepts, practices and tools. The focus is on project planning and project management of the single project, i.e. the knowledge areas, skills and methods that are needed for managing the project successfully. The overall life-cycle of projects is considered, from early identification of needs proceeding to design, manufacturing, installation and operation of the outcome. The following topics are covered: basics of project business, project goals & success, project life-cycle, project marketing

and sales, project planning and control, scheduling, resourcing, cost management, procurement, risk management, follow-up and monitoring, project organization and leadership, agile project management. An essential part of the course are the compulsory assignments which is carried out in groups, including presentation in class. After examination the student will have knowledge about central concepts of project management and how to implement the concepts into practical cases. Knowledge about PMI standards.

Course literature: A Guide to the Project Management Body of Knowledge. A selection of other literature.

Form of assessment: Compulsory assignments and written examination.

Inorganic Chemistry

Students are introduced to the field of inorganic chemistry through an understanding of its basic principles: solid-state chemistry, homogeneous and heterogeneous chemical reactions, chemical equilibria as well as water solutions and acid-base theory. This basic knowledge is widened later on in special courses on high temperature thermodynamics, combustion chemistry and materials chemistry as well as basic concepts of metal corrosion and electrochemistry.

Advanced inorganic chemistry

4 credits

Advanced level

Lectured course

Offered: Autumn 2014

Contact: Leena Hupa

Aim and contents: The course aims at deepening the knowledge of inorganic high temperature advanced materials with focus on their structure, properties, manufacturing processes and applications. The course provides basic knowledge and fundamental principles needed to prepare, select and utilize advanced inorganic high temperature materials glasses, ceramics, metals and composites in various applications. Special emphasis is put on material properties, basic thermodynamics and kinetics of high-temperature processes. The topics include kinetics of heterogeneous reactions of solids, diffusion mechanisms, nucleation and crystal growth in glasses, sintering.

Learning objectives: At the conclusion of this course the students should be able to critically compare materials for different demanding applications and understand the influence of structure and composition on the materials properties.

Target audience: Master's and postgraduate students

Form of assessment: examination

Course literature: Handouts

Solid state chemistry (old name Inorganic chemistry)

6 credits

Intermediate level

Lectured course and laboratory exercises

Offered: Autumn 2014 (periods 1 and 2)

Lectures: Leena Hupa and experts on different instrumental methods

Contact: Leena Hupa

Aim and contents: This course gives the grounding of solid state chemistry and equilibria between solid phases and gases or melts. Research methods and equipment commonly used in inorganic and materials chemistry are introduced. Structure and bonding in solid state, properties of crystalline and amorphous materials, and phase diagrams for binary

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systems will be studied. In the laboratory part, X-ray analysis, scanning electron microscopy, thermal analysis and atomic force microscopy will be introduced.

Learning objectives: The student can

- draw and interpret simple cubic structures for ionic compounds and covalent crystals
- use binary phase diagrams for condensed systems to estimate the high temperature behaviour of materials
- in general terms describe which information on the material can be gained from the instrumental analyses of the materials in the laboratory part of the course

Target audience: Master's and postgraduate students

Form of assessment: examination and accepted laboratory work report

Course literature: handouts

Chemistry in combustion processes I

4 credits

Advanced level

Intensive course

Offered: Autumn 2014 (27.10.-31.10.2014)

Lecturers: Specialists in different areas of combustion chemistry

Contact: Markus Engblom (course coordinator)

Aim and contents: The challenges of combustion processes are today more and more related to chemistry.

This course:

- Introduces industrial scale combustion systems and the chemistry associated with the formation of main emission components
- Introduces fundamental theoretical tools, including the use of expert software, for studying gas phase chemistry in combustion processes
- Provides theoretical basis for working in academia or industry with chemical issues of combustion processes
- Is an advanced level course within the major subjects Process Chemistry, Energy Technology, and Energy and Environmental Technology
- Builds on the principles introduced in the course "Processkemiska verktyg" and forms the basis for the course Chemistry in combustion processes II

Learning objectives: After completing this course, the students are expected to be able to:

- Define terms and concepts relevant to industrial combustion
- Describe the basic principles of industrial combustion systems and the chemistry within them, including the formation of main emission components
- Apply fundamental chemical theories for interpreting gaseous emissions from combustion processes
- Analyze combustion-related problems using expert software by following given instructions

Target audience: Master's and postgraduate students

Form of assessment: examination

Course literature: Handouts

Ceramic chemistry

5 credits

Advanced level

Lectured course

Offered: Autumn 2014 (period 2)

Lecturers: Specialists in different areas of high temperature materials chemistry

Contact: Leena Hupa (course supervisor and coordinator)

Aim and contents: The aim is to describe the basic principles of manufacture and use of conventional and advanced ceramics in different construction and functional applications.

Topics included are structure, manufacture and properties of glasses, ceramics and glass-ceramics. Emphasis is on developing an understanding of how chemical bonding controls the properties of ceramic materials. Further, the differences between ceramics, metals and organic materials are discussed. Application of ceramic phase equilibrium diagrams in materials research is also introduced.

Learning objectives: The student can in general terms explain 1) the most important differences between the material groups metals, ceramics and polymers, 2) how properties of ceramics depend on the structure,

3) how manufacturing parameters affect the properties

Target audience: Master's and postgraduate students

Form of assessment: examination

Course literature: Handouts

Inorganic chemistry, seminars

5 credits

Advanced level

Offered: Autumn 2014, Spring 2015 (periods 1-4)

Contact: Mikael Bergelin

Aim and contents: To introduce the research areas within the fields of materials and combustion chemistry. To learn how to find information, process it, and present it in an easily accessible way.

Learning objectives: The student is familiar with scientific information retrieval, and can present the findings in the form of an oral presentation.

Target audience: Master's and postgraduate students

Form of assessment: oral presentation and written report

Course literature: Handouts

Special laboratory course

10 credits

Advanced level

Supervised laboratory studies

Offered: Autumn 2014, Spring 2015 (periods 1-4)

Supervisors: Specialists in different areas of materials and combustion chemistry

Contact: Mikael Bergelin

Aim and contents: To introduce the main research methods and equipment used in inorganic materials and combustion related research. To learn critical results evaluation and scientific reporting.

Learning objectives: The student understands the basic principles of determination of the main properties of inorganic constituents in various matrices. The student is able to present the data according to scientific principles.

Target audience: Master's and postgraduate students

Form of assessment: written report

Course literature: Handouts

Biorefinery - Application of Chemical Engineering Principles

5 credits

Advanced level

Lectured course

Offered: Spring 2015

Lecturers: Specialists from different laboratories

Contact: Niko DeMartini (course coordinator)

Aim and contents: The aim of this course is to provide students with basic information about different biorefinery concepts and the related technical challenges. The course will begin by introducing the basic components of biomass and how these differ with biomass type. The course will then introduce different biomass conversion pathways such as fractionation, pyrolysis and gasification as well as subsequent upgrading.

The project will allow students to go deeper into one of these concepts through a literature study and calculations.

Learning objectives: At the conclusion of this course, students should be able to critically evaluate biorefinery concepts. They should also have a better understanding of how different principles of chemical engineering can be utilized in this industry.

Target audience: Master's and postgraduate students

Form of assessment: examination

Course literature: Handouts

Chemistry in combustion processes II

5 credits

Advanced level

Lectured course

Offered: Spring 2015 (16.3.-20.3.2015)

Lecturers: Specialists in different areas of combustion chemistry

Contact: Markus Engblom (course coordinator)

Aim and contents: Combustion processes is today more and more related to chemistry. New fuels are introduced regularly in an attempt to replace fossil fuels. This introduces challenges for energy technology which are often related to ash chemistry. Corrosion, deposit formation, trace metal emissions etc. may lead to costly shut downs of power plants and health/environmental problems and should be avoided. This course aims to give a basic understanding of the chemistry behind ash related problems and trace metal emissions.

The course:

- Introduces industrial scale combustion systems and ash chemistry within them
- Introduces fundamental theoretical tools, including the use of expert software, for studying ash chemistry in combustion processes.
- Provides theoretical basis for working in academia or industry with chemical issues of combustion processes related to firing new challenging fuels, ash related problems and trace metal emissions
- Is an advanced level course within the major subject Process Chemistry, Energy Technology, and Energy and Environmental Technology
- Is complementary to the course Process chemist's toolbox (Processkemiska verktyg, in Swedish) and builds upon the course Chemistry in Combustion Processes I

Learning objectives: After completing this course, the students are expected to be able to:

- Understand the challenges between different fuels when designing new combustion processes.
- Define terms and concepts relevant to ash chemistry in combustion processes
- Describe the basic principles of industrial combustion systems and the ash chemistry within them
- Apply fundamental chemical theories for interpreting ash-related problems in combustion processes
- Analyze ash-related problems using expert software by following given instructions

Target audience: Master's and postgraduate students

Form of assessment: examination

Course literature: Handouts

Corrosion of metals

4 credits

Advanced level

Lectured course

Offered: Spring 2015 (period 3)

Lecturer: Leena Hupa

Aim and contents: Base metals belong to the most important

materials used in different chemical plants and equipment. This course aims to introduce basic concepts needed to understand corrosion resistance and different methods to avoid corrosion in aqueous solutions. The course is aimed for chemical engineering and chemistry students and requires knowledge in general chemistry. Different corrosion types, passivation, polarization and corrosion protection via material choice, design, anodic and cathodic protection, inorganic and organic coatings are discussed. Examples of corrosion case studies demonstrate further the subject.

Learning objectives: The student can analyze and discuss potential factors which might have caused the observed corrosion case and also suggests possible solutions to avoid corrosion.

Target audience: Master's and postgraduate students

Form of assessment: examination

Course literature: Handouts

Producing scientific papers from your research

2 credits

Advanced level

Lectured course

Offered: Spring 2015 (period 3)

Lecturer: Mikko Hupa

Contact: Mikko Hupa

Aim and contents: This interactive seminar course will give the students a forum to learn and discuss how to produce good scientific papers of their research work in chemical engineering. The main focus is not on linguistic questions, but rather on the process of planning, structuring, and practical writing of good scientific papers. Papers very seldom are simple summary reports of a research project. One key question is what to include in a paper and how to structure ongoing research work in pieces suitable for publication. Topics to be discussed include the following:

- Where to publish - Types of publications
 - What to include - Publishable unit
 - Title and detailed structure of the paper
 - Getting the paper published - Rebuttals to reviewers, etc.
- Learning objectives: After finishing the course, the students will be able to summarize and apply the course material
- To identify the critical steps in the process of publishing papers from your research
 - To get the first papers more easily produced and published
 - To read scientific literature more critically and faster
 - To make publishing a continuous and natural part of your research work.

Target audience: Master's and postgraduate students

Form of assessment: Project report, seminars

Course literature: handouts

Bioactive glasses

4 credits

Advanced level

Lectured course

Offered: Spring 2015 (period 3)

Lectures: experts on different areas of biomaterials

Contact: Leena Hupa

Aim and contents: The goal is to introduce the multidisciplinary criteria of using an inorganic material, glass, in medical applications in the human body. The course also aims to give the material's chemistry student some basic tools needed for communication with experts in medicine. Definitions of biomaterials, bioactive materials, comparison of the general properties of different biomaterials (metals, ceramics, glasses and polymers), some main responses of using manmade ma-

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materials in the human body, criteria for choosing glass compositions to various products to be used in medical applications. Learning objectives: The student can describe

- 1) interactions of bioceramics and bioactive materials with biological systems
- 2) influence of manufacturing parameters on properties,
- 3) reactions of bioactive glasses in different aqueous environments.

Target audience: Master's and postgraduate students

Form of assessment: examination

Course literature: handouts

Paper Coating and Converting

The subject "Paper Coating and Converting" primarily focuses on the science behind surface functionalization of natural fiber-based materials for various end-uses. Examples include control of paper surface properties for improving printability, conversion of paper into specially designed products, e.g., water resistant paper for food packaging, and making substrates compatible with intelligent paper-based concepts, e.g. printed electronics. At the intermediate level, the students are introduced to the basics of surface treatment processes, and both microscopic as well as macroscopic analyses of the coatings and the coated paper products. Advanced level courses are given in rheology, natural fibre-based composites and nanotechnology. Project work and Masters thesis work at Paper Coating and Converting can include either laboratory experiments and/or computer modeling. Guidance in English is provided.

Further information and times for the courses can be found at <http://www.abo.fi/lpcc>

Project Work in Paper Coating and Converting

2, 3 or 5 credits

Advanced level

Offered: Autumn 2014-Spring 2015

Contact: Martti Toivakka

Aim: To enable students to plan and carry out laboratory work or computer modeling in a topic related to paper coating and converting.

Content: Depending on the projects available at the moment. Literature survey, laboratory work or computer modeling, reporting. May serve as a bridge to a Master Thesis subject.

Entry requirements: Pigment coating.

Format: Independent research exercise.

Form of assessment: Report, presentation

Literature: Independent literature search of scientific journals and books.

Introduction to Rheology

418515.0

4 credits

Advanced level, open for both undergraduate and postgraduate students

Lectured course

Offered: Autumn 2014, week 42 intensive course, first lecture 13.10.2014 @10, Gadolinia 4th floor

Lecturer: Anders Sand

Aim: To familiarize the students with basic concepts of rheology and rheological measurements

Contents: Background, terminology and fundamentals of rheology, rheological phenomena, relating of rheology to material microstructure, different rheometer types, rheological models, simple data analysis and results treatment, examples from practical applications.

Entry requirements: None

Format: Lectures, laboratories, group exercises or seminar work, classroom demonstrations

Form of assessment: Closed book and open book exam

Contact hours: 28 hours

Paper and Board Converting

418523

3 credits

Advanced level, open for both undergraduate and postgraduate students

Lectured course

Offered: Autumn 2014, first lecture 28.10.2014 @10, Gadolinia 4th floor

Lecturer: Mari Nurmi

Aim: To give the students an insight in basics of making packaging paper and specialty papers.

Contents: Adhesion theories, barrier properties, coating equipment, extrusion, lamination, metallizing, polymers for coating, coating chemicals, corrugating board, sack paper, specialty paper grades.

Entry requirements: None

Format: Lectures, presentations

Form of assessment: Written exam

Contact hours:12

Pigment Coating

418310.0

4 credits

Intermediate level

Lectured course

Offered: Spring 2015, first lecture 8.1.2015 @13, Gadolinia 4th floor

Lecturer: Martti Toivakka

Aim: To provide an intermediary understanding of the pigment coating process, and familiarize students with the raw materials and the chemicals used in surface sizing and pigment coating of paper and board.

Content: Printing fundamentals, colloidal stability and rheology of coating colors, pigments, binders, chemicals, surface-treatment machinery, drying, and calendering. The course includes practical laboratory work.

Entry requirements: Basic knowledge of papermaking and paper chemistry.

Format: Lectures, reading assignments and laboratory practice.

Form of assessment: Examination

Contact hours: 24 h

Literature: Selected chapters from Pigment Coating and Surface Sizing of Paper, ed. E. Lehtinen, Fapet Oy/TAPPI Press, ISBN 952-5216-11-X, material provided by the Lecturer

Printing Technology

418501.0

4 credits

Advanced level

Lectured course

Offered: Spring 2015, period 3/4, Gadolinia 4th floor

Lecturer: Juha Saari

Aim: To provide an introduction to printing technology

Contents: The students will familiarize themselves with the

various printing processes, printed products and graphic arts terminology, and learn the basic workflow from prepress to the final product and how the substrate and the printing process affects final print quality.

Format: Lectures, student seminars and group work

Form of assessment: Presentation of group work, written examination

Contact hours: 4 day intensive course, excursion

Literature: Kipphan, H: Handbook of Print Media, Springer 2001, ISBN: 3-540-67326-1

Nanotechnology – Introduction from Fundamentals to Applications

418516

4 credits

Advanced level, open for both undergraduate and post-graduate students

Lectured course

Offered: Spring 2015, first lecture 7.4.2015 @13, Gadolinia 4th floor

Lecturer: Jarkko Saarinen

Aim: To provide students with an understanding of nanotechnology fundamentals and applications in various industries including also understanding of possible nanotechnology related risks both for people and environment.

Contents: The course consists a set of lectures, which are aimed at understanding the fundamentals of nanotechnology and the importance of nanoscale engineering for enhanced macroscale properties and identifying different applications and possibilities of nanoscale engineering for various industries.

Entry requirements: None

Format: Lectures, course homework

Form of assessment: Written exam

Contact hours: 28 hours

Understanding Composites: Engineering and the Environment

5 credits

Advanced level, open for both undergraduate and post-graduate students

Offered: Spring 2015 (Period 3-4, First lecture 3.2.2015 @9, PaF, Gadolinia 4th floor)

Lecturer: Parvez Alam

Aim: To provide students with an in-depth understanding of composite materials science and engineering whilst concurrently familiarizing them with the environmental impact/concerns of using and producing hybrid materials. The student should at the end of the course not only understand the science and engineering aspects of composite materials, but should also have a sound ability to design and account for the environmental factors that may be a cause of concern. Contents: The course will comprise a set of lectures aimed at (a) understanding composite science, technology and engineering, (b) considering the environmental impact and drawbacks of engineering with and producing composites materials and (c) designing "greener" composites that may be used for specific applications.

Entry requirements: None

Format: Lectures, coursework.

Form of assessment: Coursework (50%) and written exam (50%)

Contact hours: 42 hours

Process Control

The Process Control Laboratory gives courses in design and analysis of feedback control systems. This includes topics such as dynamic modelling, control theory, system identification, signal processing and data analysis, controller design and analysis. For more information, please see <https://www.abo.fi/student/en/reglerteknik>.

Process dynamics and control

419307.0

7 credits

Intermediate level

Lectured course

Offered: Spring 2015

Contact Kurt-Erik Häggblom

Aim: The course gives basic knowledge of process dynamics, process models, process control, digital control, control system analysis and design using both frequency-domain and state-space methods. This course is a prerequisite for more advance courses in control engineering.

Course website: <https://www.abo.fi/student/tkfrtprodyc>

Contents: Introduction to process dynamics and control; physical modelling of chemical and other processes; empirical modelling; analysis of process dynamics; control system instrumentation; design and analysis of feedback control systems; advanced control methods.

Learning outcomes: After taking the course, the student is expected to be able to

- explain basic control concepts such as block diagram, system input and output, transfer function, system pole and zero, impulse response, step response, frequency response, stability, control performance, feedback and feedforward control;
- solve simple control engineering problems;
- apply computer tools for analysis, design and simulation. More specifically, the problems may be to
- derive dynamical models for simple process engineering systems using first principles;
- determine linear approximations of nonlinear differential equations;
- determine linear dynamical models for simple systems based on their impulse or step response;
- use the Laplace transform as well as state-space formulations for analysis of linear dynamical systems and calculation of their time responses to simple inputs;
- analyse the stability of linear feedback systems using frequency-domain methods;
- tune PID controllers based on step response, frequency response or a model;
- design simple controllers based on given performance and/or stability specifications for the controlled system;
- design simple digital controllers.

Forms of examination: Written examination.

Target group: Students in the Master's Degree Programme in Chemical Engineering.

Course literature: Seborg et al: Process Dynamics and Control, Wiley 2011

Plantwide control

419505.0

7 credits

Advanced level

Lectured course

Offered: Spring 2015 (Period 4)

Lecturer: Kurt-Erik Häggblom

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Aim: The course gives students knowledge of control and monitoring of multivariable processes, including complete plants with a large number of variables.

Course website: <https://www.abo.fi/student/en/kursinfort>

Learning outcomes: After taking the course, the student is expected to be able to

- explain what plantwide control is;
- explain the difference between typical simple control structures;
- design a decoupling control structure;
- choose variables and their pairings for decentralized (fault-tolerant) control;
- explain how a soft sensor works;
- design (simple) model predictive control laws
- explain the basics of process monitoring

Contents: Introduction to plantwide control; simple control structures; decoupling; choice of variables; decentralized control; integral controllability and integrity (failure tolerance); soft sensors; optimized control structures; model predictive control; process monitoring.

Prerequisites: Courses in differential equations and complex numbers are recommended.

Teaching methods: Lectures and assignments.

Forms of examination: Home examination.

Target group: Master's and postgraduate students.

Special course in control engineering

419511.0

5 credits

Advanced level

Lectures or project work

Offered: Upon agreement

Lecturer: Jari Böling

Aim: Further studies in some special (advanced) area of control engineering.

Course website: <https://www.abo.fi/student/en/kursinfort>
Contents: The course may be an advanced (lectured) course not given regularly, or some other advanced course offered by the process control laboratory, e.g.

- Control of Discrete Event Systems (419502)

- Laboratory Course in Control Engineering (419505)

According to agreement with the teacher, the course can also be a project consisting of experimental, calculation, simulation, or similar studies. A report is written about the work and presented in a seminar.

Target group: Students of the Master's Programme in Chemical Engineering or other students not taking the regular control engineering courses.

Process Design and Systems Engineering

One of the many tasks a chemical engineer needs to master in his/her work is the overall design of processes. Knowledge and understanding is needed about basic unit operations, mass and energy balances, sizing of units and pipes, modeling, planning and optimization. All this is part of process design and is reflected in the courses that are given at the laboratory. The laboratory also gives courses in energy and environmental technology as well as planning and evaluation of experimental work using statistics. A few of these courses are offered in English.

The research at the process design laboratory is conducted in three distinct areas:

- Process and production optimization, where the main focus is on the development of numerical methods and models for solving mixed-integer non-linear programming (MINLP) problems with applications in process synthesis and production planning. In this area the laboratory leads a center of excellence in Optimization and Systems Engineering funded by the university.
- Environmental engineering, where flue gas desulphurization and the limestone based absorbents that are used for this process are examined.
- Energy technology, where special interest has been put on simultaneous heat and mass transfer in paper drying and gasification of organic matter in water at supercritical conditions.

Basics in Process Design

411116.0

5 credits

Intermediate level

Lectures and exercises

Offered: Autumn 2014

Lecturer/Contact: Frej Bjondahl

Aim: The aim of the course is to train the student to solve process design problems. Mass and energy balances are set up using block flow diagrams and are used for calculation of mass and energy flows in process systems while equipment for storage, preprocessing, reaction, separation, heat exchange and transport are described and roughly sized based on the mass and energy flows in such process systems. Elementary instrumentation for control and cost estimates is also made. Learning outcome: After completing the course the student is expected to be able to set up and solve mass and energy balances and to select and size process equipment as well as make cost estimates.

Course website: <http://www.abo.fi/tkf/at/Courses/>

Teaching methods: The central parts of the course are demonstrated during lectures and trained in exercise assignments. Forms of examination: Written examination with calculations. All aid is allowed apart from computers and calculators with internet access. All exercise assignment reports must be approved before taking part in the exam.

Target group: The course is intended for students in the Master's Programme in Chemical Engineering as well as international exchange students.

Course literature: Sinnott, R. K., Chemical Engineering Design, 4th edition, 2005. Course compendium: Bjondahl, F., Basics in Process Design, 2006.

Process Plant Design

411500.0

5 credits

Advanced level

Project work, seminars

Offered: Autumn 2014

Lecturer/Contact: Frej Bjondahl

Aim: The aim of this course is to give the students insight into the methodology that is used in process plant design and the various phases the work goes through. The course is a project work which consists of the planning of a process. During the course the students will calculate mass and energy balances, select equipment sizes and plan the instrumentation. They will also simulate the process as well as draw block flow diagrams and piping and instrumentation diagrams. An introduction to process simulation with Aspen Plus and technical drawing with AutoCAD will be given during the course.

Learning outcome: After completing the course the student is

expected to be able to find information necessary for process design, to calculate material and energy flows in the process, to select and size major equipment and estimate the cost of the process. The student must also be able to describe the design both in writing and orally. The student should also be able to describe the different phases of a process design project.

General skills: During the course the student searches for information, works in a group of people, collects, selects, analyzes and modifies available information and presents the completed work.

Teaching methods: The supervisor meets the students during several meetings for general discussion about the different steps in the design process as well as for demonstration of process simulation tools and tools for technical drawing. The completed work is presented during a public seminar.

Forms of examination: The work is graded by the supervisor based on the activity during the course, the final report and the final presentation.

Target group: The course is aimed at students in the Master's Programme in Chemical Engineering as well as international exchange students.

Course literature: Towler, G., Sinnott, R. K., Chemical Engineering Design - Principles, Practice and Economics of Plant and Process Design, 2nd edition, 2012.

Special Work in Process Engineering

411117.0

2 credits

Intermediate level

Independent research exercise

Offered: Upon agreement

Contact: Frej Bjondahl

Aim(s): The aim of the course is to develop the student's ability to independently solve assignments and to present the results both orally and in writing. The assignment can be a planning- and simulation work, a literature study, laboratory work or similar in areas related to process engineering.

Course website: <http://www.abo.fi/tkf/at/Courses/>

Learning outcomes: After completing the course the student is expected to be able to independently solve specified simple assignments in process engineering, to draw conclusions about the results and to present the results both orally and in writing.

General skills: Depending on the topic the student would train skills in literature search, process simulation and/or laboratory work as well as skills in presenting information in writing and orally.

Teaching methods: The student discusses the topic of the assignment with the supervisor during several meetings. The student writes a report about the work and presents the results during a public seminar.

Forms of examination: The supervisor grades the work based on the discussions with the student, the report and the presentation.

Target group: The course is intended for students in the Master's Programme in Chemical Engineering as well as international exchange students.

Seminars in Process Design and Systems Engineering

411517.0

2-10 credits

Advanced level

Independent research exercise

Offered: Upon agreement

Contact: Frej Bjondahl

Aim(s): The aim of the course is to give the student further knowledge in the area of process design and systems engineering. According to agreement with the supervisor, the work may consist of experimental, calculation, programming or simulation studies etc. A report is written about the work and presented as a seminar.

Course website: <http://www.abo.fi/tkf/at/Courses/>

Learning outcomes: After completing the course the student is expected to be able to independently solve specified advanced assignments in process design and systems engineering, to draw conclusions about the results and to present the results both orally and in writing.

General skills: The student will become more accustomed to working independently as well as train skills in presenting information in writing and orally. Depending on the topic the student would also train skills in literature search, process simulation and/or laboratory work.

Teaching methods: The student discusses the topic of the assignment with the supervisor during several meetings. The student writes a report about the work and presents the results during a public seminar.

Forms of examination: The assignments can be split into one or more parts. The total grade is calculated as an average of the individual grades of the parts weighed by the number of credits for each part. The supervisor grades each part based on the discussions with the student, the report and the presentation.

Target group: The course is intended for students in the Master's Programme in Chemical Engineering as well as for international exchange students.

Thermal and Flow Engineering

The Thermal and Flow Engineering Laboratory gives education in heat and mass transfer, thermodynamics, fluid mechanics, energy technology, separation technology, process modeling and optimization, as well as artificial intelligence. The courses are designed to prepare the students to solve real-world problems in their future profession.

Refrigeration

424503.0

4 credits

Advanced level

Lectured course

Offered: Autumn 2014 (November / December)

Course participants may also take course 424518.0 Heat pump practical work, 2 credits, during December 2014-February 2015.

Lecturer: Ron Zevenhoven

To give an overview on refrigeration theory and transfer knowledge on equipment design and operation, including recent developments.

Prior knowledge: PTE1 and PTE2.

Contents: Overview on different refrigeration processes, vapourisation cooling, heat pumps, low temperature processes, hydrogen.

Literature: Course compendium.

Examination: Exercises and written exam.

New energy technologies

424517.0

Advanced level

Lectured course

Offered: Spring 2015

Lecturer(s): Henrik Saxén

Contents: The aim of the course is to give the participants an overview of new and emerging energy (more) sustainable technologies and their advantages and disadvantages. Present state and global trends are discussed. Technologies treated are solar thermal energy (collectors and concentrators), solar photovoltaics, biomass, fuel cells, wind energy, wave and tidal energy, geothermal energy and osmotic power. The course also treats operation principles, efficiency and practical realizations of the technologies, and illustrates the performance through a set of small numerical examples and assignments.

Lecture notes: Lectures given by the main lecturer and by invited specialists.

Examination: Written exam.

Process engineering thermodynamics

424304.0

4 credits

Advanced level

Lectured course

Offered: Spring 2015 (January / February)

Lecturer: Ron Zevenhoven

To present several important new concepts of energy technology and energy efficiency in (chemical) process engineering. The student will obtain knowledge and skills with more modern concepts of advanced thermodynamics, from a viewpoint of more sustainable energy technology and more energy efficient (chemical) process engineering.

Topics: 1) Exergy analysis; 2) Heat radiation 3) Sustainable renewable energy (mainly solar energy), 4) Separation process thermodynamics, 5) Irreversible thermodynamics (intro) 6) Energy Storage 7) Exercises.

Lecture notes: <http://users.abo.fi/rzevenho/kursRZ.html>

Introduction to Computational Fluid Dynamics

424512.0

5 credits

Advanced level

Intensive course (1 week)

Offered: Spring 2015

Lecturer(s): Ron Zevenhoven & N.N.

Contents: The aim of the course is to give the participants a deeper knowledge of the theory of fluid mechanics. It is in particular intended for postgraduate students who are familiar with the elements of engineering fluid dynamics (e.g., use of energy balances, calculation of pressure drops in pipe flow, and estimation of drag forces on obstacles) but feel that they need deeper theoretical insight to be able to enter the field of computational fluid dynamics. The course consists of lectures, exercises, and seminar presentations. The main topics of the course are mass and momentum balances, the Navier-Stokes equations, potential flow, numerical computation of flow fields, introduction to turbulence models and multiphase flows. The final part of the course is devoted to CFD modeling. Examination: A CFD software exercise and a written exam. Lecture notes: <http://users.abo.fi/rzevenho/kursRZ.html>

Wood and Paper Chemistry

Wood from forests is the most abundant renewable material on earth. Thorough knowledge of this biomass is of utmost importance in order to meet present and future needs of materials in a sustainable way.

In our laboratory, wood components are investigated by aid of advanced analytical techniques. The wood components are followed along the route from the forest to fibres (pulp) and paper. The main Aim is to investigate and understand reactions, phase transitions and interactions in pulping and papermaking at the molecular level. Broader utilization of wood and other biomass sources, including e.g., natural specialty chemicals or bioactive compounds, is also a goal of the research efforts. For more information, please visit our web pages at <http://www.abo.fi/student/traochpaperskemi>

Courses are given both at the undergraduate and graduate level in wood and paper chemistry, including the process chemistry of pulping and papermaking. Analytical techniques for pulp and paper research are also investigated both theoretically and in practical laboratory work. It is also possible to take a course in laboratory project work (2 - 10 credits), where students will be involved in a research project at our laboratory. The work includes an independent literature search, practical laboratory work and writing a report. Depending on projects available, it is also possible for students to do their M.Sc. thesis at the laboratory.

The laboratory is headed by Prof. Stefan Willför. The team of about 25 persons is part of the Process Chemistry Centre (PCC).

Wood and Paper Chemistry

423102.0

5 credits

Intermediate level

Lectures and laboratory work

Offered: Autumn 2014 (week 37-43)

Lecturer: Anna Sundberg (42 h)

Aims: Give students basic knowledge about the morphology and chemical components of wood and pulp fibers as well as the chemicals used in papermaking

Content: Morphology of wood and fibres. Wood constituents: cellulose, hemicelluloses, lignin and extractives. Reactions of wood constituents in pulping and papermaking. Mechanical pulping. Colloidal stability, dry strength, process chemicals, filler and pigments. The course ends with practical laboratory work.

Learning Objectives: The student should after the course be able to describe the most common components in wood and be able to explain how these react in pulping and bleaching. The student should also be able to list the most common chemicals used in papermaking and explain why they are used.

Prerequisites: Basic knowledge in organic chemistry

Target audience: B.Sc.

Form of assessments: Written examinations and written laboratory report

Format: Lectures (about 42 h) and practical laboratory work

Literature: Course book

Analytical Techniques for Pulp and Paper 423305.0

5 credits

Advanced level

Lectures and laboratory work

Offered: Autumn 2014 (October)

Lecturer: Stefan Willför/NN

Aim: The students will learn to chemically characterize wood, paper and process waters using analytical techniques common in the pulp and paper industry and research laboratories. Content: Preparation, isolation and determination of wood constituents in wood, pulp and paper using different methods. Examples of methods: extraction, chromatographic and spectroscopic methods (e.g., GC, GC-MS, HPLC, TLC, NMR, FTIR). The course ends with practical laboratory work.

Learning Objectives: The student should after the course be able to list and describe the most common chemical analytical methods used for wood and in papermaking. The student should also be able to perform the most important analysis in practice.

Prerequisites: Wood and Paper Chemistry, 423101

Target audience: B.Sc.

Form of assessment: Written examinations and written laboratory report

Format: Lectures (about 25 h) and practical laboratory work

Literature: Handouts

Current research in renewable materials chemistry 423510.0

5 credits

Advanced level

Lectured course

Offered: Spring 2015

Supervisor: Stefan Willför

Aim and content: Presentation of current research at the laboratory of wood and paper chemistry. The topic is different every year. The course includes lectures, literature review and seminar work.

Learning Objectives: The student should after the course be able to describe and examine a topic of current interest in renewable materials chemistry under the examiner's instructions.

Entry requirements: Wood and Paper Chemistry (423101); Analytical Techniques for Pulp and Paper (423305)

Target audience: Master's level

Form of assessment: Exam and accepted laboratory report

Contact hours: Compulsory seminars and group work (20 h) presentations

Literature: Research journals and books

Laboratory project in Wood and Paper Chemistry 423513.0, 423506.0, 423506.0

2-10 credits

Advanced level

Independent research exercise

Offered: Continuously, upon agreement

Supervisors: Stefan Willför and Anna Sundberg

Aim and Content: The students will be involved in a research project at our laboratory. The work may include an independent literature search, practical laboratory work and writing a report.

Learning objectives: The student should after passing the course be able to

- apply theories from courses related to the project work
- plan and carry out laboratory work or according to the given instructions

- explain theory, methods and results in a written report
- Entry requirements: Wood and Paper Chemistry, 423101, and Analytical Techniques for Pulp and Paper, 423305, or similar
Target audience: Master's level
Form of assessment: Report
Contact hours: Depends on amount of credits, 5 cr ~125 hrs
Literature: Research journals and books

PhD Courses

Wood extractives in pulping and papermaking

23801.0

4 credits

Postgraduate, PhD level

Offered: Nov-Dec 2014

Supervisor: Stefan Willför

Aim and contents: A two-day course presenting the state-of-the-art on wood extractives and pitch control in pulping and papermaking. The students will get good insights into the occurrence and chemistry of extractives and pitch in wood, pulping, and bleaching. Furthermore, both state-of-the-art analytical methods for surface analysis, pitch and deposits in papermaking, as well as pitch control in practice in industry will be discussed. The course also deals with aspects of wood extractives in novel bioproducts.

Learning objectives: The students should after the course be able to list the extractives found in wood, bark, pulp and paper, describe how they can be analysed and to list methods to control pitch in papermaking.

Entry requirements: Wood and Paper Chemistry, 423101, and Analytical Techniques for Pulp and Paper, 423303 or similar knowledge

Target audience: Graduate students and researchers from industry and research institutes

Form of assessment: Exam

Contact hours: 2 days intensive course

Literature: Hand-outs, research journals and books

Project work in natural materials technology

430301.0

2 credits

Advanced level

Independent research exercise

Offered: Continuously, upon agreement

Supervisors: Stefan Willför, Anna Sundberg, Maristiina Nurmi, Martti Toivakka, Jan Gustafsson, Pedro Fardim

Aim and Content: The course is an independent study including literature search, laboratory work or modeling work, as a continuation of any of the courses in natural material technology. Any of the professors or academic lecturers in natural materials technology can act as supervisors.

Learning objectives: The student should after passed course be able to apply theories and describe methods and results in a report according to the instructions of the supervisor.

Form of examination: Report

Information Technologies

Computer Science & Computer Engineering

Computer Science focuses on the study of the scientific foundations for information, computation, and communication, and on the practical techniques for implementing them in computer systems. This is a very broad area of science spanning from the theory of computing, through programming, to cutting-edge development of computing solutions for large distributed systems, including cloud-based systems. Computer Science offers a solid foundation enabling graduates to adapt quickly to new ideas, new technologies, and to multidisciplinary fields. Traditional subfields of Computer Science are algorithmics, computability, software development and verification, programming language theory, computer graphics, databases, compilers, and others.

In Computer Engineering at Åbo Akademi University you will learn how to apply the principles of computer science, engineering and mathematics to develop new computer-based solutions to today's challenges. We study Information Technology at a broad front: from large supercomputers used in scientific simulations to small embedded systems where a computer is built into an appliance and hidden from the user; from web applications and web services used in business operations and social networks to industrial computer systems used for optimization and control of technical systems. Computer Engineering includes software, hardware and how these interact with the environment and it offers courses within the subject fields of Embedded Systems, High Performance Computing, Industrial Systems Engineering and Software Engineering.

Prerequisites

Most of the courses in Computer Engineering and Computer Science that are offered in English are on the advanced level and are thus meant for students on master's / graduate level. Students should have a good understanding of the basic principles of computing, programming, databases, operating systems and computer networks. Advanced courses in Embedded Systems, Industrial Systems Engineering and Software Engineering may require additional knowledge in the subject field.

Projects and Laboratory Work

The department offers a capstone project course where students develop in small teams a system from the initial idea to the first running demonstrator. The course ends with a project exhibition and competition. A large number of our courses include practical assignments to be completed in a laboratory.

Please see also <http://www.tucs.fi/education/courses/> for information about the courses offered by the Turku Centre for Computer Science (TUCS), a joint research and education centre of the universities in Åbo.

Project Course

451000.0

10 credits

Advanced (Master's / graduate) level

Research exercises in groups, presentation

Offered: Autumn 2014- Spring 2015

Lecturers: Jerker Björkqvist, Luigia Petre, Dragos Truscan, Karl Rönnholm

Aim and content: The aim of the course is to design a real-world size information system in a team. The team specifies the problem and develops a design within a given time limit.

Advanced text algorithms

456401.0

5 credits

Advanced (Master's / graduate) level

Lectured course

Offered: Autumn 2014

Lecturer: Vladimir Rogojin

Aim and content: Text algorithms are essential in many areas of science and information processing. Very often the information is represented as a written text in the form of, e.g., newspapers, books, computer hard-drives, optical disks, the genetic information of living organisms, etc. Specific text algorithms are needed when processing the information, whether in text editors or in (web)-searching engines. The intricacies of text algorithms represent a major topic of investigation in computer science. This course will present several advanced, practically relevant text algorithms and their interconnections. They include pattern matching and data compression algorithms, detection of periodicities, repetitions and symmetries in texts, and other algorithms. At the end of the course, students will be able to explain the most fundamental algorithmic problems arising in relation to text representation and text processing and can handle a number of algorithmic solutions to these problems.

Content:

- Pattern-matching algorithms: Knuth-Morris-Pratt algorithm, Boyer-Moore algorithm
- String alignment algorithms: edit distance, optimal alignment, longest common subsequence, alignments with gaps
- Approximate pattern-matching algorithms
- Suffix trees and text search applications
- Symmetries and repetitions in texts
- Constant-space algorithms
- Text compression algorithms

Target group: Computer Science and Software Engineering

Computational modeling techniques

456402.0

5 credits

Advanced (Master's / graduate) level

Lectured course

Offered: Autumn 2014

Lecturer: Ion Petre

Aim and content: This course aims to provide an introduction to the entire computational modeling process, from the formulation of a qualitative model, to its quantitative formulation, to model fitting and validation, model analysis, and model predictions. We focus on the various computational methods that can be employed for modeling and especially on the advantages (and disadvantages) of each approach. We discuss in the course modeling with difference equations, differential equations, and with stochastic processes. The examples we follow throughout the course are mainly from biology and ecology, but the applicability of the methods covered in the course is very broad and it includes depend-

ability issues in complex systems, resource availability, but also applications in economy, chemistry, and social sciences. Target group: This course is primarily meant for Master and PhD students in computer science, computer engineering, information systems, and applied mathematics.

Content:

- Computational modeling: generalities
- Basic modeling techniques: modeling change, proportionality and geometric similarity
- Model fitting
- Modeling with ordinary differential equations
- Basic numerical techniques for ODE-based models: steady state analysis, sensitivity analysis, flux control analysis
- Parameter estimation methods
- Modeling with stochastic processes

Course book: F.R. Giordano, M.D.Weir, W.P. Fox: A first course in mathematical modeling, Thomson, 2003.

Components: 28h lectures, final examination.

Advanced computational modeling

456513.0

5 credits

Advanced (Master's / graduate) level

Lectured course

Offered: Autumn 2014

Lecturer: Ion Petre

Aim and content: The course will explore some advanced techniques for computational modeling, including modeling with Petri nets, process calculi, rule-based formalisms, membrane systems. We also demonstrate several computer-based environments for modeling. After the course the students will understand the principles of computational modeling and will be able to write, simulate, and analyze medium-sized computational models.

Software Architectures

456502.0

5 credits

Advanced (Master's / graduate) level

Lectured course

Offered: Autumn 2014

Lecturer: Luigia Petre

Aim and content: The course aims at teaching students how to design, understand, and evaluate systems at an architectural level of abstraction. After the course the student should be able to recognize different architectural styles, describe an architecture accurately, and generate and evaluate architectural alternatives.

Webpage: <http://www.users.abo.fi/lpetre/SA14/>

Network Software

456504.0

5 credits

Advanced (Master's / graduate) level

Seminar course

Offered: Autumn 2014

Lecturer: Luigia Petre

Aim and content: The networks are a ubiquitous component of our society, with a huge range of software applications such as (cloud-) sharing and communication, mobile computing, context-dependency, home networking, etc.

However, networks are not ideal and their resources are subject to overloads, failures, energy shortage, and not in the least to security leaks. The aim of this course is to inspect, on one hand, the pervasiveness of today's networking applications and, on the other hand, the challenges that they face in order to function properly.

To pass the course, the following three tasks need to be accomplished:

- Writing a paper about a topic agreed during the first meetings (40% of the grade)
- Reviewing two papers written by other students (20% of the grade)
- Preparing a presentation of the paper and discussing the paper with the other students (40% of the grade)

Webpage: <http://www.users.abo.fi/lpetre/netsoft14/>

Program Derivation

456505.0

5 credits

Advanced (Master's / graduate) level

Lectures and exercises

Offered: Autumn 2014

Lecturer: Marina Waldén

Target audience: Master level students (4th year and later)

Aim and content: The aim of the course is to teach how to derive correct programs from formal specifications using tool support.

The main contents of the course are:

- Program derivation
- Basic knowledge of the tool supporting program derivation
- Proving the correctness of the derivation
- System implementation

After completing the course, the student should be able to understand the idea of program derivation and develop a correct implementation from a formal specification.

Teaching methods: Lectures and exercises

Entry requirements: Specification Methods

Target group: Master level students (4th year and later)

Form of assessment: Final project

Course literature:

Steve Schneider. The B-Method: An introduction. 2001.

Jean-Raymond Abrial. Modelling in Event-B - System and Software Engineering. Cambridge University Press, 2010.

Parallel Programming

455303.0

5 credits

Advanced (Master's / graduate) level

Lectured course

Offered: Autumn 2014

Lecturer: Mats Aspnäs

Target audience: Master level students (4th year and later)

Aim and content: The course presents parallel programming, both on shared memory systems using threads and on distributed memory systems using message passing. Parallel solutions to different types of problems in scientific computing are also presented.

The main contents of the course are:

- Parallel computer architectures
- Parallel program design
- Parallel programming with shared memory
- Parallel programming with message passing
- Examples of parallel solutions of different types of scientific problems

Introduction to Scientific Computing

455305.0

5 credits

Advanced (Master's / graduate) level

Lectured course

Offered: Spring 2015

Lecturer: Jan Westerholm

INFORMATION TECHNOLOGIES

This course aims to give an understanding of the methods and techniques when applying mathematical calculations to typically large amounts of data. We will use Matlab and Octave to implement such methods and study the properties of these methods when using finite accuracy floating point number representations.

Course literature: Alfio Quarteroni and Fausto Saleri: "Scientific Computing with Matlab and Octave". See also: <http://www.abo.fi/~jawester/SciComp>

Logic for Computer Science

456307.0

5 credits

Advanced (Master's / graduate) level

Lectured course, exercises

Offered: Spring 2015

Lecturer: Patrick Sibelius

Aim and content: The aim of the course is to provide the students with a basic knowledge of traditional formal semantics for propositional logic and First-order predicate logic also including some modal logic. Further, to provide some understanding of First-order properties and their representability in Turing machines.

The main contents of the course are:

- Formal semantics for propositional logic
- Set theoretical semantics for First-order predicate logic
- Some modal logic

Prerequisites: Logic, formal languages and automata

Cryptography and network security

456506.0

5 credits

Advanced (Master's / graduate) level

Lectured course

Offered: Spring 2015

Lecturer: Vladimir Rogojin

Aim: After completing the course the student will know and understand the principles and practice of cryptography and network security.

Learning objectives: After completing the course the student will know and understand the principles and practice of cryptography and network security.

Contents: In this course we cover principles and practice of cryptography and network security: classical systems, symmetric block ciphers (DES, AES, other contemporary symmetric ciphers), linear and differential cryptanalysis, perfect secrecy, public-key cryptography, RSA, cryptographic protocols, hash functions, authentication, key management, key exchange, signature schemes, email and web security, viruses, firewalls, and other topics.

Target group / the course is aimed at: Computer Science: Mainly students on master's level but the course can also be completed on bachelor's level.

Course literature:

Stallings, W.: Prentice Hall Edition/year: 2006: Cryptography and Network Security. Principles and Practice.

Real-Time Systems

453306.0

5 credits

Advanced (Master's / graduate) level

Lectures and exercises

Offered: Spring 2015

Contact: Johan Lilius johan.lilius@abo.fi

Lecturer: Simon Holmbacka sholmbac@abo.fi

Aim and contents: The student learns to understand the demands for real-time systems. After a completed course the student has acquired the skills needed to analyze the

real-time and resource constraints of a real-time system design to ascertain the consistency and schedulability of the system. The student has acquired the skills needed to suggest changes to the specification or implementation strategy to ensure that the real-time constraints are satisfied. The student has acquired skills needed to design systems such that they satisfy real-time requirements.

Teaching methods: Lectures in class, Lab sessions

Entry requirements: Operating system, Programming in C

Target group: Master's students, related to embedded systems

Form of assessment: Written exam

Course literature:

Jane W. S. Liu – Real-Time Systems (Book)

Introduction to Computer Graphics

455301.0

5 credits

Advanced (Master's / graduate) level

Lectured course

Offered: Spring 2015

Lecturer: Jan Westerholm

Course website: <http://www.abo.fi/~jawester/compgraph>

Course literature:

John F. Hughes, Andries van Dam, Morgan McGuire and David F.

Sklar: Computer Graphics: Principles and Practices, 3rd edition

Software Quality

456503.0

5 credits

Advanced level

Lectured course

Offered: Spring 2015

Lecturer: Elena Troubitsyna

Course description: The course gives an overview of techniques in software quality assurance and basic ideas in measurement theory

Learning objectives:

- understand the role of requirements
- understand the role of formal specification
- understand the role of formal verification
- understand the role of testing
- understand the advantages of model-driven engineering for software quality assurance
- Understand the role and usage of metrics
- Understand metric theory and models
- How to quantify software development resources, processes, and products
- Understand software and process metrics

Course website:

<http://users.abo.fi/Elena.Troubitsyna/SWQCourse15.htm>

Course literature:

Fenton N. E. and S. L. Pfleeger: Software Metrics - A rigorous & Practical Approach. International Thomson Computer Press (second edition), 1997.

Sommerville, Ian: Software engineering. Pearson, 2011.

Software Safety

456501.0

5 credits

Advanced (Master's / graduate) level

Lectured course

Offered: Spring 2015, Period 4

Lecturer: Elena Troubitsyna

Course description: The course gives an overview of issues in the developing software for safety-critical systems.

The topics covered in the course include:

- Programming control systems at an application level

- Simulation of the behavior of controlled processes
- Simulating behavior of faulty hardware
- Techniques for safety analysis: FMEA, FTA, FFA, HAZOP
- Deriving software requirements from safety analysis
- Modelling requirements using use cases, state diagrams
- Allocating safety requirements
- Architecting safety critical systems, system partitioning
- Safety kernel
- Layered approach to architecting
- Verification: overview of static and dynamic testing
- Safety-critical systems development life-cycle
- Safety integrity levels
- Brief introduction to formal methods

Course website: <http://users.abo.fi/Elena.Troubitsyna/SWS-Course15.htm>

Course literature:

Neil Storey: Safety Critical Computer Systems Addison-Wesley, 1996

Nancy Leveson: Safeware: System Safety and Computers. Addison-Wesley, 1996

Debra S. Herrmann Software Safety and Reliability IEEE Computer Society, 1999

Modelling of Embedded Systems

453503.0

5 credits

Advanced (Master's / graduate) level

Lectured course, exercises, research exercises in groups

Offered: Spring 2015

Lecturer: Sébastien Lafond

Aim: To convey the main concepts needed for apprehending modeling applied to embedded systems: state and state space, models of computation and concurrency, communication, modeling of data and time.

The course will cover concepts and techniques for modelling of systems at various levels of abstraction. We will concentrate particularly on embedded systems. Their design present a great challenge in terms of modelling, because of the variety of concepts one need to handle in order to describe them correctly.

Learning outcomes:

- Compare different models of computation
- Describe embedded applications with the appropriate models of computation
- Analyse models of computation for consistency, schedulability, reachability and coverability
- Model system concurrency

Design methods for energy efficient embedded systems

453506.0

5 credits

Advanced (Master's / graduate) level

Lectured course, exercises, research exercises in groups

Offered: Autumn 2014

Lecturer: Sebastien Lafond

Aim and content:

We will study the design of embedded systems with highly data-intensive character. Such systems include implementations of media processing algorithms. The implementation is subject to constraints that include energy consumption, silicon area, and speed. In this course we will emphasize energy consumption and speed and study hardware/software tradeoffs and software optimizations. Students will learn about system level modeling, energy consumption estimation, architectural mapping and system simulation.

The main contents of the course are:

- Design flows for Embedded Systems

- Hardware platforms

- Power Consumption and its estimation

- Memory consumption

Prerequisites: Programming in C/C++, Embedded Systems design, Operation systems, Microprocessors and micro controllers

Information Systems

Information systems are key and crucial components of any organizations' infrastructure in a modern society where digital technology is part of all functions. Information systems are essential tools for any individual that wants to make a career in modern business, for people forming groups and teams in social networks and for managers and leaders that build cooperation for common goals. Therefore, it is important for any organization to have individuals with social and analytical skills, with competence and skills in managing information systems, and with a strong competence in problem-solving in all the functions of a modern corporation. This is the kind of individuals that Information Systems at Åbo Akademi University aims to graduate.

As part of our information systems curriculum, one can acquire in-depth knowledge in management science and information systems platforms, electronic and mobile commerce, data mining and business intelligence, IT project planning and usability of information systems.

The majority of the courses in Information Systems that are offered in English are on advanced level and are thus intended for students on master's / graduate level.

Managing the Digital Enterprise

457304.0

5 credits

Intermediate level

Offered : Autumn 2014

Lecturer: Anna Sell, e-mail: anna.sell@abo.fi

Learning objectives: Upon completion of the course, the student should be able to:

- Recognize, describe and analyze business models in the digital environment
- Understand and describe the digitalization of enterprises, organizations and society and the consequences of this on the market environment
- Understand and be able to apply central concepts and terminology within the field of electronic commerce correctly
- Understand how information technology can be used to leverage competitiveness and strategy in organizations from three perspectives: Business-to-business (B2B), Business-to-consumer (B2C) and Business-to-employee (B2E)
- Be able to describe ways to create and maintain trust and loyalty in the digital environment
- Recognize central security risks in the digital environment and understand issues concerning integrity of individuals, organizations and data in the electronic commerce context
- Gain basic understanding of web analytics, understand central web metrics and understand how data can be utilized to improve company strategy and operations

Literature: To be announced

Prerequisites: Basic studies in information systems

INFORMATION TECHNOLOGIES

Management Science and Inventory Analysis

457305.0

5 credits

Intermediate (Bachelor's / undergraduate) level

Lectured course

Offered: Autumn 2014

Target audience: Bachelor level students (2nd – 3rd year)

Lecturer: TBA

Aim and content: During several discussions with industry partners, it has come forth that there is a growing need of persons with an education in business and quantitative capabilities. This course is the first step to expose the students to such methods. It is designed for business students and will not require rigid mathematical background skills.

The course focuses on quantitative methods (i.e. management science methods) in information systems. Basic principles for linear optimization are presented and the student is taught how to model real problems using both freeware software and Microsoft Excel. The student is also exposed to queuing models and inventory models. Finally, quantitative methods in the context of inventory analysis will be presented. All methods are illustrated with examples.

After completing the course the student will be able to

- Understand and explain the problems that can be solved with management science models; these include resource allocation problems, network and assignment problems, inventory problems, queuing problems and issues for using integer and simulation models
- Solve such problems with suitable tools (such as Excel and its add-ons)
- Discover the relation between management science tools and methods and their application to real-world problems
- Write reports for management on how such problems were tackled and solved

Prerequisites: Basic level courses in Information Systems

Literature: F.S. Hillier and G.J. Lieberman: Introduction to Operations Research, New York : McGraw-Hill 5th ed.

Pidd, Michael: Tools for Thinking. Modelling in Management Science, Chichester: J. Wiley & Sons 2nd ed/2003

Business Intelligence

457512.0

5 credits

Advanced (Master's / graduate) level

Lectured course, research exercises in groups

Offered: Autumn 2014

Target audience: Master level students (4th year and later)

Lecturer: Barbro Back

Aim and content: The overall aim of the course is to provide an understanding of business intelligence, data warehousing, and intelligent systems.

The main contents of the course are

- Business Intelligence
- Knowledge-based systems
- Neural networks

After completing this course, students will be able to

- Define and explain what business intelligence is
- Define the role of Data Warehousing in an organization and relate the concepts of data warehouse to the business intelligence process
- Identify issues with extracting data from heterogeneous data sources
- Define an intelligent system
- Explain how artificial intelligence differs from human intelligence

- Indicate main advantages of intelligent systems
- Describe the meaning of human-like when dealing with intelligent systems
- Describe the main ideas behind a knowledge-based system
- Describe the main ideas behind neural networks
- Explain the difference among three main styles of neural network learning - supervised, reinforcement, and unsupervised learning.
- Demonstrate an ability to use software within the area of Business Intelligence.

Prerequisites: Bachelor degree in Information Systems / Business or equivalent; Databases or Data Warehousing

Computational Intelligence and Management

457514.0

5 credits

Advanced (Master's / graduate) level

Lectured course

Offered: Autumn 2014

Target audience: Master level students (4th year and later)

Lecturer: Jozsef Mezei

Aim and content: Information and communication technology [ICT] has become both an essential resource for business and an efficient, effective and developable instrument for achieving the strategic targets that modern corporations face. The course provides the students with a basis for understanding these relations; the students will be able to independently study further and understand the development of ICT instruments and their strategic consequences, and to formulate new strategic solutions for corporations facing the challenges posed by advances in ICT.

The main contents of the course are:

- Computational Intelligence and modern management
- Artificial vs. Computational Intelligence: Yesterday, Today and Tomorrow
- Evolutionary Computation with Industrial Applications
- Intelligent Agents and Swarm Intelligence
- Decision Support Systems – the New, Intelligent Era
- Strategic Management and Intelligent Support
- Competitive Advantages of Computational Intelligence
- Obstacles for Applying Computational Intelligence
- ICT and the Productivity Paradox
- Cyber crime and information security

After completing the course a student should be able to

- Understand and explain the key possibilities and challenges of computational intelligence and ICT in modern corporations in the form of written essays; the issues include the potential of computational intelligence, decision making and DSS, ICT investments and productivity, strategic management and intelligent support, competitive advantages of intelligent and interactive ICT, application of computational intelligence, cybercrime and IS security technology
- Learn how to search for and find relevant data, information and knowledge in support of the issues dealt with in the course by working through internet sources with intelligent ICT tools
- Read, learn and critically evaluate the material of textbooks, articles and case studies

Prerequisites: Bachelor degree in Information Systems / Business or equivalent

Analytics*(Analytics and Soft Computing)***457515.0****5 credits****Advanced (Master's / graduate) level****Lectured course****Offered: Autumn 2014**

Target audience: Master level students (4th year and later)

Lecturer: Jozsef Mezei

Aim and content: Information and communication technology [ICT] has become both an essential resource for business and an efficient, effective and developable instrument for achieving the strategic targets that modern corporations face. The course provides the students with a basis for understanding these relations; the students will be able to independently study further and understand the development of ICT instruments and their strategic consequences, and to formulate new strategic solutions for corporations facing the challenges posed by advances in ICT.

The main contents of the course are:

- Analytics and corporate management
- Advanced analytics and computational intelligence
- Complex decisions and advanced methods
- Risk assessment and risk management
- The forgotten skills of optimization: industrial cases
- Knowledge management and mobilization
- Competing on analytics

After completing the course a student should be able to

- Understand and explain the key possibilities and challenges of analytics in modern corporations in the form of written essays; the issues include risk assessment and management, complex decisions, advanced planning in real time, knowledge management and mobilisation, competing on analytics
- Learn how to search for and find relevant data, information and knowledge in support of the issues dealt with in the course by working through internet sources with intelligent ICT tools
- Read, learn and critically evaluate the material of textbooks, articles and case studies

Prerequisites: Basic and intermediate level courses in Information Systems; Computational Intelligence and Management

Electronic Commerce**457502.0****5 credits****Advanced (Master's / graduate) level****Lectured course****Offered: Spring 2015**

Target audience: Master level students (4th year and later)

Lecturer: Pirkko Walden

Aim and content: The course focuses on the development and use of business models in electronic commerce. It provides an insight into the alternative approaches, such as CANVAS, STOF, C-SOFT or VISOR, and how they can be used to analyze e-commerce business cases. Attention to the technical foundation of e-Commerce is also paid as the analysis of business cases will be enhanced with a description of the business logic. Learning goals: The learning goals of the course are:

- To gain knowledge about business models and business logic and how they are used in electronic commerce
- To gain insights through the analysis of e-commerce business cases
- To understand how business models are related to business logic

Prerequisites: Bachelor degree in Information Systems / Business or equivalent

Data Mining and Text Mining**457513.0****5 credits****Advanced (Master's / graduate) level****Lectured course, research exercises in groups****Offered: Spring 2015**

Target audience: Master level students (4th year and later)

Lecturer: Barbro Back

Aim and content: Today, many organizations struggle with vast amounts of data. Worldwide the computers have turned into massive data tombs. It is more than evident that we can capture and store data, but it is not at all evident that we are able to process and utilize it effectively and efficiently. This course concerns solutions to this problem: data and text mining. The course focuses on what data/text mining is, what data/text mining techniques and tools there are, and how to use a sample of the tools and techniques. We will use case studies using large data sets taken from real-life applications. Data mining software will be used extensively during the course.

After completing the course, students should be able to

- Describe the role of data mining and text mining in an organization
- Differentiate between data mining, databases and data warehousing
- Create, evaluate and apply decision tree models, unsupervised clustering, market basket models, Support vector machines, Rough Sets
- Develop scenarios in which use of decision tree models, unsupervised clustering, market basket models, Support vector machines, Rough Sets would be appropriate
- Performance evaluation of data mining and text mining methods
- Use data mining software to develop and apply data mining models to business problems
- Discuss ethical issues surrounding the use of data mining

Prerequisites: Bachelor degree in Information Systems / Business or equivalent; Databases or Data Warehousing; Business Intelligence

Mobile Value Services**457516.0****5 credits****Advanced (Master's / graduate) level****Lectured course, research exercises in groups****Offered: Spring 2015**

Target audience: Master level students (4th year and later)

Lecturer: Pirkko Walden

Aim and content: The course aims to trace emerging methods, technologies and business models for the production and distribution of mobile value services and to show the role and impact of mobile technology on the management processes in the corporate world. Mobile value services are new entities in both B-to-B and B-to-C markets and will introduce processes of change, with an impact on sustainable competitive advantages for a company. Central themes in the course will be the substance and form of new products and services, business models, emerging markets and information technology to support the mobile technology and logistics processes. The main contents of the course are:

- Mobile value services: a state-of-the-art
- Emerging products and services
- Business models and emerging markets
- Wireless technologies
- Intelligent support systems on mobile platforms

Prerequisites: Bachelor degree in Information Systems / Business or equivalent.

Law and Human Rights

Studies in Public International Law deal with questions of general importance, such as general concepts and principles of public international law, international organizations, international human rights and interaction between international and domestic law. It is possible to specialize in areas such as humanitarian law, criminal law, EU law, law of the sea, environmental law, human rights etc.

Public Law concentrates on constitutional and administrative law, including issues of participation on the one hand and issues of autonomy and sub-state arrangements on the other. Special emphasis is put on questions related to local government, civil servants, social security, community planning and construction as well as administrative remedies.

Studies in Private Law are aimed at giving an insight into national norms and principles, focusing, however, on international aspects especially as concerns questions related to commerce, transport, and the environment. European integration forms a natural part of the studies in this context.

The Department of Law at Åbo Akademi University, the Faculty of Law and the Turku School of Economics at the University of Turku organize a joint venture, called "Turku Law School" (TLS). Exchange and degree students from both these universities can freely choose among all English law courses provided within TLS. Exchange students in law at Åbo Akademi University therefore have the possibility to also choose courses organised by the University of Turku within TLS. The Department of Law also participates as the National Coordinating University in the European Master's Programme in Human Rights and Democratisation (www.emahumanrights.org/).

Institute for Human Rights

The Institute for Human Rights at Åbo Akademi University operates within the Department of Law at Åbo Akademi University. The Institute promotes research, provides education and disseminates information relating to the protection of human rights. Some of the courses offered by the Institute for Human Rights have restricted entry – the selection of participants is based on registration/application.

Master's Degree Programme in International Human Rights Law

The Master's Degree Programme in International Human Rights Law is offered by the Institute for Human Rights and the Department of Law at Åbo Akademi University. The programme is designed to equip its graduates for demanding human rights law assignments in international organizations, non-governmental organizations and in public administration, and for advanced human rights law research. The language of instruction is English.

Doctoral Network on Realizing Human Rights

The Doctoral Network on Realizing Human Rights is coordinated by the Institute for Human Rights and the Department of Law at Åbo Akademi University. The aim is to offer its doctoral students a systematically built, scientifically ambitious,

and multidisciplinary research education which benefits from Finnish, Nordic and international contacts. The Doctoral Network is based on the results achieved and practices developed within the Finnish Graduate School in Human Rights Research from 2002 until 2013.

International Protection of Human Rights

346115.0

10 credits

Intermediate/advanced level, please see entry requirements

Lectured course

Offered: Autumn 2014

Lecturers: Catarina Krause, Programme Director and guest lecturers

Contact: Catarina Krause, catarina.krause@abo.fi

Aim: The aim of the course is to provide a general overview and discussion of the international system for the protection of human rights.

Content: The course consists of lectures and case studies in working-groups. The lectures will cover the following topics:

- Human Rights and International Law
- Human Rights in Domestic Legal Systems
- Universal and Regional Human Rights Systems
- United Nations Charter based System of Protection
- United Nations Treaty based System of Protection
- The Protection of Human Rights in the European System
- The Protection of Human Rights in the Inter-American System
- The Protection of Human Rights in the African System
- Economic and Social Rights
- Human Rights and International Humanitarian Law

Learning outcomes: After the course the participants are expected to:

- possess a good understanding of the international (universal and regional) system of protection of international human rights as well as the main international conventions in the area with regard particularly to the systems of protection and the main characteristics of respective convention.

- Have good knowledge of a number of specific substantive rights or issues

- be able to apply the knowledge gained in a factual situation

Mode of study: 30-40 hours of lectures, 6-10 hours of working-group exercises as well as individual assignments and group discussions on Moodle.

Form of assessment: Written exam (60 %), Individual assignments (30%) and active participation in working group exercises and class discussions (10 %).

Target group: Students of law, international law or international relations in their 3rd year or later. Compulsory for students taking part in the Master's Degree Programme in International Human Rights Law.

Prerequisites: Basic knowledge of human rights law, international law or international relations is required of the participants. Exchange students need to be pre-approved for the course. For information on pre-approval, please contact the international office.

Entry requirements: Registration during first course session. Should a student not be able to participate in the first session, he or she should contact catarina.krause@abo.fi before the course starts.

Course literature:

1. International Protection of Human Rights: A textbook, Catarina Krause & Martin Scheinin (eds.), Turku/Åbo: Institute for Human Rights, Åbo Akademi University 2012.
2. Additional readings will be provided to the participants during the course.

United Nations and Human Rights**359510.0****5 credits****Intermediate/Advanced level, please see prerequisites.****Web-based course****Offered: Autumn 2014**

Lecturers: Catarina Krause, Programme Director, Mikaela Heikkilä, Post-Doc Researcher

Contact: Catarina Krause, catarina.krause@abo.fi

Aim: The participants are expected after successful completion of the course to be able to evaluate the role and mandate of various UN bodies in the international protection of human rights, to understand the difference between charter-based and treaty-based human rights mechanisms, and to review the applicability of available monitoring mechanisms in a concrete situation.

Contents: The course will address the role of human rights within the UN system through focusing on the mandates of selected UN bodies, that is, the Security Council, the International Court of Justice, the Human Rights Council and the Human Rights Committee. Emphasis will be put on the various mechanisms attached to these bodies as well as on their concrete applicability in a situation where human rights are threatened.

Learning outcomes: After the course the participants are expected to:

- have a good understanding of the different roles that the Security Council, the International Court of Justice, the Human Rights Council and the Human Rights Committee of the United Nations have in the protection of human rights,
- be familiar with the procedure before the Security Council, the ICJ, various mechanisms of Human Rights Council, the individual complaints system of the Human Rights Committee,
- be able to apply and critically reflect upon the procedures and mechanisms of these bodies in a concrete case.

Mode of study: The course is built on problem-based learning methods. The participants are expected to solve case studies based on given readings and internet-based material such as UN documents, international treaties, research reports and articles.

Form of assessment: The final grade will be calculated based on the grading of the various course modules on a scale from 0-5.

Prerequisites: Basic knowledge of human rights law, international law or international relations is required of the participants. Exchange students need to be pre-approved for the course. For information on pre-approval, please contact the international office.

Target group: Students of law, international law or international relations. Optional specialization course for students taking part in the Master's Degree Programme in International Human Rights Law.

Entry requirements: Participants are selected based on application (max. 40 participants). On-line registration at <http://www.unipid.fi/en/courses/>

Course literature: Provided during the course.

Course on Refugee Law**346125.0****10 credits****Intermediate/Advanced level, please see prerequisites****Lectured course****Offered: Autumn 2014**

Lecturer: NN

Contact: Catarina Krause, catarina.krause@abo.fi

Aim: The purpose of the course is to deepen the participants' understanding on the current issues and problems of refugee law.

Content: Topics discussed during the lectures include the impact of human rights law on the treatment of asylum seekers and refugees; the principle of non-refoulement; qualification as a refugee or as a beneficiary of subsidiary protection; and asylum procedures.

Learning outcomes: After the course the participants are expected to:

- have a thorough knowledge of the protection of refugees in international law
- be familiar with central concepts of refugee law, such as the refugee definition and the definition of a beneficiary of subsidiary protection, persecution and the persecution grounds, complementary protection, and non-refoulement
- understand gender dimensions of refugee law
- be familiar with the landmark cases concerning the refugee definition and protection against refoulement.
- understand how the recent developments within the EU have influenced the framework for the protection of refugees in the EU member states and also more generally

Mode of study: The course consists of lectures, self-studying of literature and legal materials, and an exam. The emphasis of the course is on the independent studying of the reading materials; the lectures seek to clarify their contents, to underline their most significant elements and to offer examples of practical application (cases etc.).

Form of assessment: Written exam

Prerequisites: Basic knowledge of international human rights law is required of the participants. Exchange students need to be pre-approved for the course. For information on pre-approval, please contact the international office.

Target group: Students of law, international law or international relations. Optional specialization course for students taking part in the Master's Degree Programme in International Human Rights Law.

Entry requirements: Registration during first course session. Should a student not be able to participate in the first session, he or she should contact catarina.krause@abo.fi before the course starts.

Course literature: will be provided at the beginning of the course.

Comparative Law - Public Law**345114.0****5 credits****Intermediate level****Lectured course****Offered: Autumn 2014**

Lecturer(s): Markku Suksi, Dr., Professor of Public Law, Åbo Akademi University

Contact: Markku Suksi, markku.suksi@abo.fi

Aim and content: The course aims at providing the students with basic knowledge on methods used in comparative law research. The focus will be in their application to public law, especially constitutional and administrative law. European community law will also be discussed from a comparative point of view.

Learning outcomes: After the course, the student will understand the position of Finland in the Nordic legal family and will understand the significant variation in the European states between such legal issues as constitution-making, the referendum, territorial autonomy, liability in non-contractual damage situations of public authorities, and ethnically determined property regimes in the Nordic countries. After the

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course, the student will understand the three main points of departure within the methodology of comparative law.

Mode of study: Lectures, 12 hours. The lectures may include a working group assignment presented during the lectures. The student is supposed to develop an essay topic and propose it to the professor.

Target group: Exchange students and regular students of Åbo Akademi University and the University of Turku.

Prerequisites: Exchange students need to be pre-approved for the course. For information on pre-approval, please contact the international office.

Entry requirements: Registration during first course session.

Form of assessment: Written examination + essay (5 ECTS)

Course literature: Handouts and literature will be defined at the beginning of the course.

Law and the Internet

3 credits

Intermediate level

Offered: October 2014

Responsible teacher: Professor Katja Lindroos UEF Law School, E-mail: katja.lindroos@uef.fi

Learning outcomes: The student will learn to recognize legal problems and common solutions to legislative concerns triggered by the internet infrastructure. The course offers basic understanding of jurisdiction and conflicts of laws through contemporary substantive law issues, such as internet security, virtual contracting, social media networks, privacy as well as data protection.

Content: The course offers an overview of international agreements on solving global issues as well as international guidelines (soft law) that influence national or EU internet law. Contracting practices or policy of major global or national internet service providers are also analyzed and compared. High profile court cases are contrasted and compared.

Modes of study: The course consists of mandatory lectures 20 hours, assignments (50%) and take home exam (50%). Lecture recordings, course materials and assignments are available on Moodle <http://moodle.uef.fi/course/view.php?id=3955>

The course key will be sent to all selected students at the first day of lectures.

Study materials: The lectures and course material (articles, reports and official documents) shared on Moodle, official legal websites and databases.

Moodle-page opens at first day of lectures.

Savin, Andrej: EU Internet Law, Edward Elgar Publishing 2013, ISBN 978 1 78100 601 6

Further information: Students from University of Turku or Åbo Akademi University must register via e-mail (katja.lindroos@uef.fi) by September 1- September 15, 2014. Include name, student number, university and study program in the registration e-mail. Entry is limited and spots are filled on a rolling basis. All applicants will be informed of the results by September 30, 2014. The course can be completed 100% online. Note that the course is available on the Moodle platform of University of Eastern Finland (link above) to which Turku students gain entry with their UTU/ÅÅ username/password through the HAKA login icon.

Comparative Law in a Changing World

345118.1(exam) and 345118.2 (essay)

5 (+5) credits

Advanced level

Self-study course

Offered: Autumn 2014 and spring 2015

Contact: Markku Suksi, Dr., Professor of Public Law, Åbo Aka-

dem University, markku.suksi@abo.fi

Aim and content: The course aims at training the participant in various features of different legal orders with respect to different concepts of comparative law and trends in the evolution of comparative law. After the course, the student will be familiar with different theories of convergence, with reciprocal influences between national law and European law, with the evolution of common law, with the various legal families and their most salient features, and with manners in which comparative law can be used in legal research.

Mode of study: No classes; examination (5 ECTS) and an optional essay (5 ECTS) based on literature.

Target group: Exchange students and regular students who have sufficient prior background in comparative law either through the course on Comparative Law – Public Law or in other respects.

Prerequisites: Exchange students need to be pre-approved for the course. For information on pre-approval, please contact the international office.

Form of assessment: Written examination (5 ECTS) and optional essay (5 ECTS). Length of the essay: 12-15 pages of text, font: New Times Roman 12, line space: 1,5, L/Rmargin: 3 cm.

For 345118.: Literature for the exam:

1. Peter de Cruz: Comparative Law in a Changing World (2007), pp. 1-299, 493-522.

2. Legrand & Munday (eds): Comparative Legal Studies: Traditions and Transitions (2003), pp. 3-28, 197-239, 345-510.

For 345118.2, the student should contact the responsible teacher right after the exam to agree on the topic of the essay.

Course on the European Convention on Human Rights

346111.0

10 credits

Intermediate/Advanced level, please see prerequisites

Lectured course

Offered: Spring 2015

Lecturers: Catarina Krause, Programme Director, Markku Suksi, Professor

Contact: Catarina Krause, catarina.krause@abo.fi

Aim: The aim of the course is to familiarize the participants with the protection of human rights offered by the European Convention on Human Rights (ECHR) and the European Court of Human Rights.

Content: The course will cover the historical development of the European system of the protection of human rights, the procedure before the European Court of Human Rights, overviews on various substantive rights of the ECHR as well as future prospects of the ECHR system. The lectures will build on a case-based approach in which the participants are expected to study existing cases as well as solve fictional cases in working groups and submit written home assignment(s). A moot court exercise will be organized at the end of the course. Learning outcomes: After the course the participants are expected to:

- understand the place of the ECHR in the larger context of the Council of Europe
- be familiar with the protection offered by the ECHR (substantive rights as well as procedure)
- have a thorough knowledge of the procedure relating to individual complaints to the European Court of Human Rights and be able to argue and decide fictive cases under the Convention.
- have gained an understanding of the way the Court argues and decides individual cases by having read a number of judgments of the Court
- possess a general understanding of the main issues in

relation to the rights protected (the scope and content of protection)

- be able to present arguments of both sides (the individual and the State) in an individual complaint to the ECtHR

Mode of study: 30 contact hours, approximately 12 hours of working group exercises and Moodle based questions to be answered prior to each class (based on weekly assigned readings)

Form of assessment: Written exam 70%, Moodle-based questions 20%, active participation in working group exercises and class discussions (10 %).

Prerequisites: Basic knowledge of international human rights law is required of the participants.

Target group: students of law or international law in their 3rd year or later, including postgraduate students. Compulsory for students taking part in the Master's Degree Programme in International Human Rights Law. Exchange students need to be pre-approved for the course. For information on pre-approval, please contact the international office.

Entry requirements: Registration during first course session. Should a student not be able to participate in the first session, he or she should contact catarina.krause@abo.fi before the course starts.

Course literature:

1. Jacobs & White. The European Convention on Human Rights. Clare Ovey and Robert White, Oxford: Oxford University Press, 2010 (Fifth Edition)
2. Selected cases of the ECtHR prior to each session.

International Protection of Women's Human Rights

346115.0

10 credits

Intermediate/Advanced level, please see prerequisites

Lectures and exercises

Offered: Spring 2015

Lecturers: Prof. Elina Pirjatanniemi (Åbo Akademi University), Ms. Katarina Frostell (Åbo Akademi University), Dr. Alessandra Sarelin (Åbo Akademi University), Dr. Mikaela Heikkilä (Åbo Akademi University), Ms. Natalia Ollus (European Institute for Crime Prevention and Control).

Contact: Ms. Katarina Frostell, kati.frostell@abo.fi

Aim: The course offers a critical gender-specific examination of the international human rights protection. Emphasis is put on the theory and practice of universal and regional human rights conventions.

Content: Feminist approaches to human rights law; Instruments and procedures, in particular the Convention on the Elimination of All Forms of Discrimination Against Women; Prohibition against discrimination, including direct, indirect and intersectional discrimination; Gender-based violence, including trafficking; Reproductive rights; Regulation of sexual violence in armed conflicts

Learning outcomes: After completion of the course, the students should:

- Have gained knowledge of the development of international women's human rights
- Understand and be able to apply different feminist approaches to human rights
- Be able to critically analyze gender-relevant case law of key human rights instruments, in particular the Convention on the Elimination of All Forms of Discrimination against Women
- Understand the content of the equality and non-discrimination provisions in key human rights instruments, including their limitations when it comes to protecting

women's human rights

- Be able to form informed views on contested areas of human rights protection, including gender-based violence, trafficking and reproductive rights
- Be able to discuss the regulation of sexual violence in armed conflicts

Mode of study: Lectures 22 hrs and assignments.

Form of assessment: Written exam.

Prerequisites: Basic knowledge of international human rights law is required of the participants. Exchange students need to be pre-approved for the course. For information on pre-approval, please contact the international office.

Target audience: Students of law, international law, international relations or women's studies in their 3rd year or later. Optional specialization course for students taking part in the Master's Degree Programme in International Human Rights Law.

Entry requirements: Registration during first course session. Should a student not be able to participate in the first session, he or she should contact kati.frostell@abo.fi before the course starts.

Course literature: A list of readings will be provided to the course participants at the beginning of the course.

The Law of International Organizations

346132.0

10 credits

Intermediate level, please see prerequisites

Lectured course

Offered: Spring 2015

Lecturers: Viljam Engström, D.Soc.Sc (International Law), LL.M., University Teacher in Constitutional and International Law, Åbo Akademi University.

Contact: Viljam Engström, viljam.engstrom@abo.fi

Aim: The aim of the course is to understand the nature and structure of international organizations as actors in the international legal system. During the course the law governing the activities of organizations (also known as international institutional law) will be discussed and critically assessed. During the course students learn about the nature of organizations as legal actors, about the role and impact of international organizations in international law, about common legal issues arising within organizations, and about the complexities of international institutional law.

Content: The topics dealt with include: The history of organizations, defining international organizations, issues of legal personality and competences/powers, basic structures and impact of organizations, and applicable law and the responsibility of organizations.

Learning outcomes: After having completed the course students will be expected to:

know the basic contents of the law of international organizations, understand the special features of international organizations in the context of public international law, be able to critically assess international organizations as legal actors, have basic knowledge of legal instruments relating to international organizations, know how to apply legal instruments relating to international organizations.

Mode of study: Lectures (16 h). Discussions in class. Some lectures will require reading of material in advance.

Form of assessment: Written exam (open-book). The exam can be taken on 3 consecutive general exam dates of the Department of Law after the final lecture.

Prerequisites: Basic knowledge of international law. Exchange students need to be pre-approved for the course. For information on pre-approval, please contact the international office.

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Target audience: Students of international law/law. Optional specialization course for students taking part in the Master's Degree Programme in International Human Rights Law (offered every second year).

Entry requirements: Registration during first course session. Should a student not be able to participate in the first session, he or she should contact viljam.engstrom@abo.fi before the course starts.

Course literature:

1. Jan Klabbers, *An Introduction to International Institutional Law*, 2009, 2nd Edition, Cambridge University Press.
2. Material distributed during the lectures and through the homepage of the course.

The Surveillance Society and Human Rights

5 credits

Intermediate/Advanced level, please see prerequisites

Lectured course

Offered: Spring 2015

Lecturers: Professor Martin Scheinin (European University Institute, Florence), former UN Special Rapporteur on Human Rights and Counter-Terrorism, and Audelina Ahumada, PhD Student.

Contact: Audelina Ahumada (PhD Student), audelina.ahumada@abo.fi

Aim: The aim of the course is to introduce the participants to the concept of surveillance society, familiarize them with the challenges specific areas of surveillance poses to the enjoyment of human rights, and to direct the participants into independent analysis and writing.

Content: The course will address the implications of the surveillance society with particular focus on human rights, including the rights to privacy, data protection and non-discrimination. Specific cases to be elaborated are surveillance in the context of counter-terrorism measures, surveillance in the border control context, and a methodology to evaluate the fundamental rights impact of surveillance technology.

Learning outcomes: After the course the participants are expected to have an understanding of the implications of surveillance society for democracy and human rights, and the ability to identify key human rights issues arising from the use of surveillance as a counter-terrorism measure and surveillance in the border control context.

Mode of study: 20-25 hours of lectures and seminars

Form of assessment: 3-4 written assignments/essays

Prerequisites: Basic knowledge of international human rights law (substantive rights and mechanisms) is required of the participants. Exchange students need to be pre-approved for the course. For information on pre-approval, please contact the international office.

Target audience: Target audience is students of law or international law. Optional specialization course for students taking part in the Master's Degree Programme in International Human Rights Law.

Entry requirements: Participants are selected based on application (max. 30 participants). On-line application (information on the application will be provided here <http://www.abo.fi/institution/en/studiervi> by September 2014).

Course literature: A list of readings will be provided to the course participants at the beginning of the course.

Autonomy and Participation

345125.1 (lectures and exam) and 345125.2 (essay)

5 (+5) credits

Intermediate/Advanced level, please see prerequisites

Lectured course

Offered: Spring 2015

Lecturer(s): Heidi Öst, Doctoral Candidate

Contact: Heidi Öst, heidi.ost@abo.fi

Aim and content:

- to explore the notion of self-determination especially from the point of view of internal self-determination and to connect it to the notion of (internal) sovereignty.
- to review the role of elections and referendums in the context of self-determination and autonomy.
- to study the case of the Åland Islands and other autonomy arrangements as examples of autonomy and self-government.

Learning outcomes: After the course the students should:

- be able to understand, explain and discuss legal concepts such as the right of self-determination of peoples, territorial self-government and autonomy in their external and internal sense.
- have an understanding of the relevance of various forms of self-government and autonomy as means of ethnic conflict resolution.
- understand the role of elections and referendums with regard to the implementation of autonomy solutions to such conflicts.
- have a good knowledge of the autonomy of the Åland Islands, including its historical background.

Mode of study: Lectures, examination (5 credits) and an optional essay (5 credits).

Target group: Students of law, international law, international relations or development studies. Optional specialization course for students taking part in Master's Degree Programme in International Human Rights Law. The course is a parallel course in English to course 345112.0 *Ålands självstyrelse* (10 cr). Prerequisites: Basic knowledge of international human rights law recommended. The number of participants is limited to 30 students. Exchange students need to be pre-approved for the course. For information on pre-approval, please contact the international office.

Entry requirements: Registration during first course session. Form of assessment: Written exam (5 ECTS) and an essay (12-15 pages, 5 ECTS).

For 345125.1: Literature for the exam:

1. Thomas Benedikter, *The World's Working Regional Autonomies - An Introduction and Comparative Analysis*. London, New York & Delhi: Anthem Press, 2007, (the number of pages to be read according to specification in the course database MinPlan).

2. Thomas Benedikter (ed.), *Solving Ethnic Conflict through Self-Government - a Short Guide to Autonomy in Europe and South Asia*. Bozen/Bolzano: Eurac, 2009, 134 pages.

3. Markku Suksi, 'Keeping the Lid on the Secession Kettle - a Review of Legal Interpretations concerning Claim5 of Self-Determination by Minority Populations', pp. 189-226 in *International Journal on Minority Rights and Group Rights* 12:2005. 30 pages.

4. Markku Suksi, *Sub-state governance through territorial autonomy: a comparative study in constitutional law of powers, procedures and institutions*. New York: Springer, 2011 (the number of pages to be read according to specification in the course database MinPlan).

Selected literature, conventions and policy documents are provided on the course website and/or in the form of handouts.

For 345125.2, the student should contact the responsible teacher right after the exam to agree on the topic of the essay.

Form of assessment: Essay. Length: 12-15 pages of text, font: New Times Roman 12, line space: 1,5, L/Rmargin: 3 cm.

International Commercial Law, written exam**340129.0****5 credits****Intermediate****Self-study course****Offered: Autumn 2014, Spring 2015**

Responsible person: Professor Hannu Honka

Aim and learning outcomes: The course aims to provide the students with an understanding of legal questions concerning international transactions. After having completed this course, you should be able to explain the main legal norms and institutions which provide the basis for international trade. You should also be able to recognize the legal problems arising from international commercial contracts and develop arguments in order to find possible solutions to these problems. Content: Regulations and principles concerning sales and services; standard documents; European integration concerning trade, arbitration aspects, development and trends in international business law

Format: The course is a self-study course which is integral with the courses "New Trends in Electronic Commerce Law: E-marketplaces and Electronic Trading Systems, Negotiability of Rights and Instruments", and "Law and the Internet" in the area of International Commercial Law.

Assessment: Written exam (the course New Trends in Electronic Commerce Law entails essays and/or practical exercises such as analyzing and drafting of legal instruments).

The Åbo Akademi University website provides information about examination dates for law courses in English. Åbo Akademi students should register to exams via the MinPlan database one week before the exam. Also English-speaking Åbo Akademi students may register to exams at MinPlan.

Students that have not registered/cannot register to exams through MinPlan, should e-mail lawexam@abo.fi one week before the exam.

Grading scale: 1–5

Literature:

Murray, Carole et al: Schmitthoff's Export Trade. 12th Edition. London: Sweet & Maxwell 2012. ISBN 978-0-414-04607-8. (N.B. The previous 11th edition can be read instead if the newer one is not available. London: Sweet and Maxwell 2007. ISBN 978-0-421-89280-4.)

The following chapters shall be read: 1 (Introduction), 2 (Trade Terms), 3 (Formation of Contract), 4 (Performance), 5 (Acceptance and Rejection), 6 (Frustration), 9 (Bills of Exchange), 10 (Collection), 11 (Letters of Credit), 12 (Contract Guarantees), 13 (Factoring etc.), 21 (English Law and Foreign Law), 22 (Jurisdiction).

Bernstein, H. – Lookofsky, J: Understanding the CISG. 4th (Worldwide Edition). The Hague: Kluwer Law International 2012. ISBN 978-90-41138200.

Incoterms 2010.

Please note! Registration required: lawcourse@abo.fi. For more information, please contact Paula Klami-Wetterstein (pklami@abo.fi).

Jurisdiction and Conflict of Laws**340124.0****5 credits****Intermediate level****Lectured course****Offered: Spring 2015**

Responsible person: Prof. Peter Wetterstein

Aim: The course deals with central issues concerning the jurisdiction of courts and the choice of applicable law in international relations. Focus is mainly on the development within the European Union, i.e., the Brussels I-Regulation on

jurisdiction and the enforcement of judgments in civil and commercial matters and the Regulations on the law applicable to contractual and non-contractual obligations (Rome I and II). Also international arbitration will be discussed.

Content: EU law and international conventions

Learning outcomes:

After having completed this course, you should be able to recognise the legal problems arising from international relations, explain the legal norms governing international arbitration and list the main legal rules and principles concerning the jurisdiction of courts and the choice of applicable law in international relations – with particular focus on the so called Brussels I Regulation (Council Regulation No 44/2001 on jurisdiction and the recognition and enforcement of judgments in civil and commercial matters), as well as the Regulations on the law applicable to contractual and non-contractual obligations (Rome I and II). You are also expected to be able to review the measures taken to promote the harmonisation of rules governing jurisdiction and applicable law and discuss the future trends in this area. Furthermore, you should be able to apply your theoretical knowledge gained in the course of lectures and self-studies to practical situations.

Entry requirements: Basic studies in commercial and private law

Assessment: Written examination

Grading scale: 1–5

Literature: Handouts

Please note: The number of participants is limited to 30 students. Registration required: lawcourse@abo.fi. For more information, please contact Paula Klami-Wetterstein (pklami@abo.fi).

Natural Sciences

Geology

Geology is the science of the Earth's physics, chemistry and history. Geosciences today deal with the interaction between the lithosphere (the solid Earth), the hydrosphere, the biosphere and the atmosphere. Geology and Mineralogy at Åbo Akademi University educate geologists with expertise in bedrock geology and environmental geology. Our research is focused on

- The evolution of the Fennoscandian shield. The Fennoscandian shield is the piece of Earth where we live. The old shield contains a lot of mineralizations why the geological activity is high in the area. For successful exploration of mineral ores, geologists need deep knowledge in the geological history about the area in focus. This is why we do research on the evolution of the Fennoscandian shield.

- Environmental mineralogy. Or "cheap solutions for global problems". Our philosophy is that solutions of anthropogenic environmental damages should be as energy efficient as possible. One way is to use "intelligent" minerals with short carbon track to clean the environment instead of industrial processed chemicals with a long carbon track.

- Environmental geochemistry. Sometimes the natural environment is polluting itself. Like the leakage of heavy metals from acid soils around the Baltic Sea. Our research is to identify polluting leakages to the Baltic Sea, quantify it and create solutions for the problem.

Petrology III - Magmatic processes

243022.0

5 credits

Advanced level

Offered: Autumn 2014

The course can be given in English if there are students requesting it.

Course literature: Hall, Anthony: Igneous petrology (2nd edition), Addison Wesley Publishing Company

Advanced field course in petrology

243021.0

3 credits

Advanced level

Offered: Spring 2015

Form of teaching: Excursion to Brändö, Kumlinge and the mainland of the Åland islands. Description of petrological processes. The course can be given in English if there are students requesting it.

Mathematics

The main fields of research at the Department of Mathematics of Åbo Akademi University are functional analysis with applications to complex analysis and stochastics with applications. Many courses on the advanced level are on these and related topics. Students attending the advanced courses are usually supposed to have passed at least two years of mathematical studies. All courses on the advanced level can be held in English, if there is a need. Courses for 1st and 2nd year students are held in Swedish but in many cases the textbooks are in English.

The personnel of the department are willing to help English-

speaking students also on the 1st and 2nd year courses but courses on the advanced level are recommended.

Research seminars and post-graduate courses are usually given in English.

Financial Mathematics I

273020

5 credits

Advanced level

Lectures and exercises

Offered: Autumn 2014

Lecturer/Contact: Professor Paavo Salminen

Aim: To give an introduction to the mathematical theory for basic financial derivatives.

Contents: In the first part of the course a presentation of different instruments on financial markets (e.g. interest rates, bonds, stocks, forwards, futures and options) is given. In the second part, the mathematical theory of pricing and hedging of European options in the discrete time models is treated. In particular, we analyze the Cox-Ross-Rubinstein binary model in detail and derive, therefrom, the Black-Scholes formula via a limiting procedure.

Learning outcomes: After the course the participant should have basic knowledge of different financial instruments and understand the mathematical theory of pricing European options in discrete time and how the Black-Scholes formula is derived from the Cox-Ross-Rubinstein model.

Teaching methods: Lectures and exercises (6 contact hours per week)

Entry requirements: An intermediate course in probability theory and real analysis.

Target group: Undergraduate (MA) and graduate students in mathematics and statistics

Form of assessment: Homework and written examination

Course literature: The lectures are based on the following literature:

Cox, J.C., Rubinstein, M.: Options markets, Prentice-Hall, 1985; Foellmer H., Schied, A.: Stochastic finance; An introduction in discrete time (2nd edition), de Gruyter 2004;

Hull, J.C.: Options, futures and other derivatives (4th edition), Prentice Hall, 2000;

Lamberton, D., Lapeyre, B.: Introduction to stochastic calculus applied to finance, Chapman & Hall, 1996, 2 ed. 2007;

Panjer, H.H (ed): Financial economics; with applications to investments, insurance and pensions, The Actuarial Foundation, 1998.

Financial Mathematics II

273021

5 credits

Advanced level

Lectures and exercises

Offered: Autumn 2014

Lecturer/Contact: Professor Paavo Salminen

Aim: To present the basic mathematical theory for the pricing of European type financial derivatives in continuous time and of American type in discrete time.

Contents: The course focuses mainly on option pricing theory. In the first part of the course European options in the Black-Scholes market model are considered. To understand the mathematical framework, a short introduction to stochastic calculus with Brownian motion is given. In the second part, American options are analyzed in the discrete time models. For this, some aspects of the theory of optimal stopping for discrete time processes are presented.

Learning outcomes: After the course the participant should understand the Black-Scholes market model and how the

Black-Scholes formula is derived as well as the mathematical theory of pricing American options in discrete time.

Teaching methods: Lectures and exercises (6 contact hours per week)

Entry requirements: Financial mathematics I, an intermediate course in probability theory and real analysis.

Target group: undergraduate (MA) and graduate students in mathematics and statistics

Form of assessment: Homework and written examination

Course literature: The lectures are based on the following literature:

Cox, J.C., Rubinstein, M.: Options markets, Prentice-Hall, 1985; Foellmer H., Schied, A.: Stochastic finance; An introduction in discrete time (2nd edition), de Gruyter 2004;

Hull, J.C.: Options, futures and other derivatives (4th edition), Prentice Hall, 2000;

Lamberton, D., Lapeyre, B.: Introduction to stochastic calculus applied to finance, Chapman & Hall, 1996, 2 ed. 2007;

Panjer, H.H (ed): Financial economics; with applications to investments, insurance and pensions, The Actuarial Foundation, 1998;

Medina P.K. and Merino, S.: Mathematical finance and probability; a discrete introduction, Birkhauser, 2003;

Shreve, S.E.: Stochastic calculus for finance I: the binomial asset pricing model, Springer, 2004;

Shreve, S.E.: Stochastic calculus for finance II: the continuous time models, Springer, 2004.

Stochastic Modeling

10 credits

Intermediate/Advanced level

Lectures and exercises

Offered: Spring 2015

Lecturer/Contact: Professor Paavo Salminen

Aim: To present and analyze some much used stochastic processes and models from theoretical and practical points of view.

Contents: Discrete time Markov chains, continuous time Markov chains, Random fields, Point processes, Brownian motion and diffusions.

Learning outcomes: After the course the participants should understand the basic elements of stochastic modelling and recognize situations and phenomena suitable for such modeling.

Teaching methods: Lectures and exercises (6 contact hours per week).

Entry requirements: Knowledge of basic statistical methods; an intermediate course in probability

Target group: undergraduate (MA) and graduate students in mathematics and statistics

Form of assessment: Homework and written exam

Course literature:

Guttorp, P.: Stochastic modeling of scientific data. Chapman and Hall 1995;

Ross, S.M.: Introduction to probability models. Academic Press 2007

Organic Chemistry

The laboratory of organic chemistry offers both undergraduate and graduate courses in organic chemistry. The basic organic chemistry courses are lectured in Swedish but in some cases can also be arranged in English for international students. All enquiries should be directed to the teacher in charge. Some courses in advanced organic chemistry are offered

in English and in Swedish. Students are also welcome to do laboratory practice in different research groups. Our current research projects are focused on the development of new methods for organic synthesis, preparation of pharmaceutically interesting compounds, natural product chemistry and environmental organic chemistry. For more information on our courses, please contact the teaching personnel at the laboratory of organic chemistry.

Organic chemistry III

263203.0

5 credits

Advanced level

Self-study course

Offered: Upon agreement

Lecturer(s): Leif Kronberg

Aim(s): To introduce theoretical organic chemistry for professionals in trade and industry.

Contents: Advanced structure and bonding theory in organic chemistry and electron theory. Reaction mechanisms in organic chemistry. Introduction to stereochemistry. Applications of physical methods in organic chemistry.

Prerequisites: Organic chemistry II (NatVet or KT)

Form of assessment: Examination

Course literature: Organic Chemistry, John McMurry, Brooks/Cole, 1994

Principles of organic stereochemistry

263209.0

4 credits

Advanced level

Lectures and seminars

Offered: Spring 2015 (to be confirmed)

Lecturer(s): Reko Leino

Aim(s): The course provides the conceptual background to the stereochemistry of organic compounds

Contents: The course provides the conceptual background to the stereochemistry of organic compounds. Properties of enantiomers and racemates in chemical and biological applications as well as spectroscopic and chromatographic methods for their elucidation are discussed together with a short introduction to asymmetric and diastereoselective synthesis.

Prerequisites: Organic Chemistry II (NatVet or KT) or equivalent studies.

Form of assessment: Examination

Course literature:

B. Testa, Principles of Organic Stereochemistry, Marcel Dekker, 1979;

E. L. Elien, S. H. Wilen, Stereochemistry of Organic Compounds, Wiley, 1993 (selected Chapters).

Environmental organic chemistry

263212.0

5 credits

Advanced level

Self-study course

Offered: Upon agreement

Contact: Leif Kronberg

Aim(s): To introduce to student to environmental organic chemistry.

Contents: Pollutants, heterocyclic compounds and pharmaceuticals in the environment.

Prerequisites: Organic chemistry II

Form of assessment: Examination

Course literature: R.P. Schwarzenbach, P.M. Gschwend and D.M. Boden Publisher: Title: Environmental Organic Chemistry

NATURAL SCIENCES

Introduction to research methods in organic chemistry

263205.0

3 credits

Intermediate level

Seminars and laboratory exercises

Offered: Upon agreement

Lecturer(s): Reko Leino

Contents: Introduction to research methods in organic chemistry by participation in an ongoing research project.

Prerequisites: Organic Chemistry II (NatVet), Organic Chemistry II (KT) or equivalent studies.

Form of assessment: Practical laboratory work and research report

The history of chemistry

262201.0

2 credits

Basic/Intermediate/Advanced level

Self-study course

Offered: Upon agreement

Contact: Reko Leino

Aim(s): To introduce the natural sciences and especially the development of chemistry.

Contents: Literature.

Form of assessment: Examination

Course literature: The History of Chemistry, J. Hudson, McMillan, 1992

Physical Chemistry

The main research area of the Laboratory of Physical Chemistry is surface and colloid (nano) chemistry, with a strong focus on materials science. The aim is to accumulate a molecular understanding of processes related to these fields, and to apply this knowledge in biotechnology, pulp and paper technology, as well as in the design of functional materials. Currently the research at the department is focused on five broad areas:

1. Surface science and interfacial phenomena
2. Pharmaceutical materials for cellular targeting and drug delivery
3. Printed functionality: sensors, electronics, energy solutions
4. Quantum chemistry and molecular modeling

The broad spectrum of activities shows that students can benefit from a thorough theoretical and practical education at the department. The degrees from the department are highly appreciated by employers. Basic and intermediate level Physical Chemistry courses are taught in Swedish (for Bachelor's degree). However, for the Master's degree all advanced level courses including laboratory courses are every year offered and supervised in English. Laboratory practice can also be arranged within research groups. Physical Chemistry can be chosen as major subject in Natural Sciences and Chemical Engineering at all levels (BSc, MSc, PhD). For more information see Physical Chemistry web page under Department of Natural Sciences. See also Master's Degree Programme in Chemical Engineering ("Two-year Master's Degree Programmes" in this book or web page).

Technical surface and colloid chemistry

263115.1 and 263115.2

5 credits

Intermediate (advanced) level

Lectures and laboratory work

Offered: Autumn 2014

Lecturer: Jouko Peltonen

Aim: To give students an introduction to surface chemistry in interfacial systems and to colloid chemistry in dispersed systems.

Prerequisites: Physical chemistry I, II and laboratory course A, or equivalent courses.

Contents: This course is for MSc-students in the field of (physical) chemistry and consists of lectures and examination. (The 2nd part is connected lab work.) In this course the students are acquainted with the terminology and the methods of surface and colloid chemistry. The course deals with the physico-chemical properties of interfaces, the concepts of surface tension, adsorption, wetting as well as the colloidal state and its stability.

Literature: Shaw, D.J.: Introduction to Colloid and Surface Chemistry, Oxford: Butterworth-Heinemann, 2007.

Colloidal sol-gel processing of (nano) materials

263104.0

5 credits

Advanced level

Lectures and seminars

Offered: Autumn 2014

Lecturers: Jan-Henrik Smått and Pia Sjöberg

Aim: To provide insight into the sol-gel technology, 'bottom-up' synthesis and processing of nanomaterials both from a molecular and colloidal point of view. Emphasis is put on metal-oxide-based nanomaterials regarding both characterisation and selected applications. To supply the student with understanding of the reaction-structure relationship and with tools for tuning the material properties.

Contents: This course is for MSc and PhD-students in chemistry. It deals with the thermodynamic foundation of surface chemistry, disperse systems – their (molecular) interactions, phenomena and size classes. The course covers the Sol-(Gel) definition(s) and relates the SG-chemistry to the final particle structure. Basic analytical approaches for valid material characterisation are taught.

Prerequisites: Technical surface and colloid chemistry, or other equivalent courses.

Literature:

Brinker, C.J. and Scherer, G.W.: Sol-Gel Science, Academic Press, 1990

Quantum chemistry I

263004.0

8 credits

Advanced level

Lectures and exercises

Offered: Autumn 2014

Lecturer: NN

Aim: Introduction to the mathematical formalism of quantum mechanics and to the quantum chemistry of many-electron atoms.

Prerequisites: Basic knowledge of molecular modeling and mathematics.

Experimental methods in surface and colloid chemistry

263105.0

4 credits

Advanced level

Laboratory work

Offered: Spring 2015

Supervisor: Pia Sjöberg

Aim: To give a thorough insight in different available experimental research methods in surface, colloid, and materials chemistry.

Prerequisites: Technical surface and colloid chemistry, Physical chemistry I and II, preferably also Sol-Gel Processing of Nano Materials or other equivalent courses.

Contents: This course is for MSc-students who need deeper insight into the practice of experimental methods applied at the Laboratory.

Literature: Distributed material.

Dispersion technology

263101.0

5 credits

Advanced level

Lectures and seminars

Offered: Spring 2015

Lecturer: Pia Sjöberg

Aim: The course gives students deeper understanding of the factors which affect the stability of suspensions (colloidal dispersions or sols) under gravitation and flow. Special focus is on how to influence the stability by ions, surfactants and polymers. The basic models for dispersion stability and adsorption to particle surfaces are described, i.e. DLVO theory and adsorption isotherms. Particle, powder, liquid and suspension properties. Suspension stability, aggregation, adsorption and rheology.

Prerequisites: Physical Chemistry I and II and Technical surface and colloid chemistry.

Literature: Distributed material.

Quantum chemistry II

263005.0

12 credits

Advanced level

Lectures and exercises

Offered: Spring 2015

Lecturer: NN

Aim: Introduction to the computational methods that are used for atoms and molecules, chemical reactions etc. Empirical, semi empirical and ab initio methods as well as molecular mechanics and simulations will be covered.

Prerequisites: Quantum Chemistry I.

Scientific writing and literature evaluation

263099.0

2 credits

Advanced level

Seminars

Offered: Spring 2015

Lecturer: Pia Sjöberg

Aim: To give a short introduction on how to write scientific articles and how to critically evaluate existing literature. The emphasis is put on structuring the text into rational entities. Contents: This course is primarily for PhD-students and provides a tool in scientific writing. It consists of various discussions, literature evaluation and a personal seminar.

Literature: Distributed material.

Political Science and Public Administration

The Department of Political Sciences arranges a number of courses in English every year in political science and public administration. The contents and level as well as the number of courses may vary from year to year depending on the lecturers and their fields of research. However, lectured courses and literature studies providing about 30 credits will be offered each year.

For more information about the courses, please see:

<http://www.abo.fi/institution/ofcoursesenglish>

<http://www.abo.fi/institution/coursesinenglish>

Please see also the information about courses taught at the University of Turku within the programme History and Politics of European Integration: <http://www.utu.fi/en/units/soc/units/conthist/unit/hpei/Pages/home.aspx>

Politics and Administration in Finland: An introduction

370003.0

5 credits (Political Science and Public Administration)

Basic level

Lectured course

Offered: Autumn 2014

Lecturers: Associate Professor Guy-Erik Isaksson and PM Sam Grönholm, guy-erik.isaksson@abo.fi/sam.gronholm@abo.fi

Aim and contents: The aim of the course is to give the students a basic overview of the political and administrative system on all levels of government in Finland. * Historical overview * Central political institutions * Parties and organizations * Central administration * Local government * Comparative perspectives

Learning outcomes: After completing the course the student should be able to

1. describe the basics of Finland and the Finnish society
2. illustrate how the political and the administrative system in Finland are working
3. show how the political and the administrative system in Finland have changed over the decades
4. explain the relation between central and local Finnish government
5. illustrate tendencies in Finnish party politics
6. compare the Finnish system with other, especially Nordic systems

Teaching methods: Lectures (24 h) and readings

Entry requirements: Anyone interested in the subject

Target group: Exchange students

Form of assessment: Exam (4 h)

Course literature:

1. Selovuori Jorma (ed.): Power and bureaucracy in Finland 1809-1998, Helsinki: Edita 1999 (available also in other languages)
2. Council of Europe (2009): Structure and operation of local and regional democracy in Finland. Country report.

POLITICAL SCIENCE AND PUBLIC ADMINISTRATION

3. Pesonen P and Riihinen O. Dynamic Finland. The political system and the welfare state. Finnish literature society, 2002.

Political Institutions in the European Union

370161.0

5 credits (Political Science and Public Administration)

Intermediate level

Lectured course

Offered: Autumn 2014

Lecturer: PD Henrik Serup Christensen (hchrste[a]abo.fi)

Aim and contents: The European Union today is an important and controversial actor in the system of governance in Europe, and there is simultaneously deep scepticism and great expectations for the prospects of the union. At the same time, it is a novel and complex political system, which does not fit easily into the traditional concepts within political science. For this reason, there is good reason to examine in more detail how the EU functions. This course introduces how the EU functions and some issues that have been problematic during the European integration process. Topics covered are the historical development of the EU; main institutional actors; decision-making in the EU; important policy areas; and future challenges for the EU.

Learning outcomes: After completing the course the student should be able to

1. summarise the historical development of the EU
2. identify central concepts and actors in the EU
3. explain the role of these concepts and actors in the EU
4. differentiate between the various decision-making procedures used by the EU
5. distinguish central differences between policy areas in the EU
6. show how the institutions of the EU affect democracy and decision-making.

Teaching methods: Lectures (15 h) and readings. If you intend to take the course, please sign up via Moodle since this will be the main channel of communication during the course: <https://moodle.abo.fi/course/view.php?id=915>

Entry requirements: Basic or intermediate studies in Public Administration

Target group: a) exchange students, b) undergraduate and graduate students at Åbo Akademi

Form of assessment: Home exam and/or essay

Course literature:

1. Peterson, John., Shackleton, Michael: The Institutions of the European Union. Oxford University Press, 2006
 2. Sourander, Dag: EU-Lexikon - Den europeiska integrationen från A till Ö. Liber, 2006
- For other languages than Swedish, see:
http://europa.eu/scadplus/glossary/index_en.htm
http://europa.eu/abc/eurojargon/index_en.htm
3. Bomberg, Elizabeth, John Peterson and Richard Corbett: The European Union. How does it work? Oxford university Press, Third edition 2012
 4. Nugent, N: The Government and Politics of the European Union. Palgrave MacMillan, 7. ed. 2010
 5. Selection of articles (will be available in Moodle)

Comparative Democratisation

375115.0

5 credits (Political science)

Intermediate level

Lectured course

Offered: Spring 2015

Lecturer: D.Phil Inga Saikkonen (inga.saikkonen@abo.fi)

Aim: The course aims to give the students a good knowledge of comparative theories on democratisations and the persistence of non-democratic regimes in the world.

This course introduces students to comparative theories about democratic transitions and democratic consolidation. The course begins by evaluating different ways to conceptualise and measure democracy and non-democratic regimes. We will then discuss various theories on democratic transitions and (non)consolidation, such as the effect of economic development, elite strategies, political institutions, the 'resource curse' and international influences. Theory is discussed together with empirical examples from newly democratised countries and cross-national comparative data.

Teaching methods: Lectures (15 h), readings, seminar discussion

Entry requirements: Basic knowledge in social sciences

Form of assessment: Written exam, active participation

Readings:

1. Teorell, J. (2010) Determinants of Democratization, Explaining Regime Change in the World 1972-2006 (Cambridge: CUP)
2. Geddes, B. (2009) 'What Causes Democratization?' Boix, C. & Stokes, S.C., eds., The Oxford Handbook of Comparative Politics (Oxford: OUP) Ch. 14.
3. Boix, C. and Stokes, S.C. (July 2003) 'Endogenous Democratization', World Politics, 55(4), 517-549
4. Levitsky, S. and Way L.A. (July 2005) 'International Linkage and Democratization', Journal of Democracy, 16(3), 20-34
5. Schedler, A. (January 2010) 'Authoritarianism's Last Line of Defense', Journal of Democracy, 21(1), 69-80
6. Gandhi, J. and Lust-Okar, E. (2009) 'Elections under Authoritarianism', Annual Review of Political Science, 12, 403-422
7. Ross, M.L. (2001) 'Does Oil Hinder Democracy?' World Politics, 53(3), 325-361

Corruption and Development (To be confirmed)

375113.0

5 credits (Political Science)

Intermediate level

Virtual course

Offered: Autumn 2014

Lecturer: PD Catharina Groop (cgroop@abo.fi)

Introduction: The report "Our Common Future" by the Brundtland Commission defined sustainable development as "Development that meets the needs of the present without compromising the ability of future generations to meet their own needs". Corruption should be regarded as the antithesis of sustainable development. In a corrupt society, funds are diverted from the development process and channeled into the hands of the few (who often already are well off). As a result, children do not receive the education they are entitled to, the sick do not receive the health care they so badly need, and the economy does not develop, among other things. It goes without saying that such a state of affairs erodes capacities and compromises abilities to achieve short-term as well as long-term development goals. Combating corruption should therefore be a key priority for all actors.

Aim: The proposed course introduces participants to the linkages between corruption and development. Participants are first introduced to corruption as a phenomenon (module 1). The course then proceeds to discussing why corruption should be regarded as a problem in need of solution (module 2). The final module of the course (module 3) introduces participants to tools for combating corruption. At the end of the course students will be conversant with:

- Different definitions of corruption and the implications of choosing one rather than another
- The different faces of corruption in practice

- Tools for measuring corruption and why these often are criticized
 - The causes of corruption
 - The consequences of corruption and linkages between corruption and the likelihood of achieving development goals
 - How different actors are engaged in the fight against corruption
 - Analyzing real cases and trying to find practical solutions
- Mode of study: Self-study, virtual discussions and assignments using the learning platform Moodle
- Entry requirements: The course is especially targeted at students of political science, public administration but can, due to the multidisciplinary natures of corruption and development, also be completed by students of other disciplines. Students should have completed their first year of studies.
- Form of assessment: Graded virtual discussions, assignments and end of course exam
- Length: 6 weeks (virtual course)

Citizens and the State

375114.0

5 credits (Political Science)

Intermediate level

Virtual course

Offered: Spring 2015

Lecturer: PD Catharina Groop (cgroop@abo.fi)

Introduction

In most liberal democracies the relationship between citizens and the political decision-makers is rapidly being transformed. In several countries, declining levels of party membership and partisanship have been documented, as well as declines in voter turnout. Voters are less loyal to political parties and especially populist and anti-system political parties have gained popularity in recent decades. For some countries, we can also observe a decline in levels of political trust.

As a result, various scholars have claimed that we are witnessing a crisis of democracy. However, other authors are more optimistic about current trends in citizens' attitudes and behaviours. They state we are witnessing the rise of a new generation of "critical citizens" who are not satisfied with the way democracy is currently working but adhere to the basic norms of liberal democracy. This new generation of critical citizens probably will no longer become a member of political parties, but they do participate in various other, more informal forms of politics. The question remains, however, how these 'new' forms contribute to a real representation of people's interests. While their symbolic importance might be highly relevant, we do not know whether these 'new' forms actually contribute to a further democratization of political decision-making.

Aim: The course at hand aims to shed light on the relationship between citizens and the state, and how it has evolved over time. More specifically, the course focuses on different modes of engagement on the part of citizens vis-à-vis the state. At the end of the course, participants will be conversant with:

- Theoretical debates and empirical arguments related to citizen's engagement with the state
- The relationship between civic engagement and democracy
- Forms of engagement, how these have evolved over time
- The segments of the population who do engage with the state using different channels
- The objectives linked to engagement

Mode of study: Self-study, virtual discussions and assignments using the learning platform Moodle

Entry requirements: The course is especially targeted at

students of political science but can also be completed by students of other disciplines. Students should have completed their first year of studies.

Form of assessment: Graded virtual discussions, assignments and end of course exam

Length: 6 weeks (virtual course)

Governance of Sustainable Development - a Baltic Sea Region perspective (Environmental Politics I)

375105.0

5 credits (Political Science)

Intermediate level

Lecturer course

Teacher: Sam Grönholm

Project Society

370189.0

5 credits (Public Administration)

Intermediate level

Lectured course

Offered: Spring 2015

Lecturer: PM Sam Grönholm (sam.gronholm[a]abo.fi)

Contact person: Marko Joas (marko.joas[a]abo.fi)

Aim and contents: As a result of a broad societal development which has taken place during the last decades, often referred to from a political perspective as "from government to governance", projects have emerged as important governance instruments. This course describes how and why projects have become such an important part of contemporary public policies, and the main challenges related to this development. The course introduces the students to how projects are used in the society, for example as steering instruments, and also elaborating on the various forms of projects, and within which policy fields projects are most commonly used. Given the emergence and the commonplace of project related work, the course touches also upon the practical side of project based work, via constructive discussions and examples. The aim of this is to introduce the students to what it means to be employed as a project worker, how to prepare for this and how to successfully steer and implement projects.

Learning outcomes: After completing the course the student should be able to

1. describe how to successfully steer and implement projects
2. explain how and why projects have become such an important part of contemporary public policies
3. identify how projects are used in the society, for example as steering instruments
4. give examples of what it means to be employed as a project worker

Teaching methods: Lectures (15 h), discussions and readings

Entry requirements: Basic or intermediate studies in Public Administration

Target group: a) exchange students, b) undergraduate and graduate students at Åbo Akademi

Form of assessment: Exam. Although a written exam is the basis of the grading, the students are encouraged to actively participate in the course discussions, reflecting upon the multi-level governance changes, both from a national as well as international perspective, the emergence of projects and their use from a policy perspective and the implications of this, as well as taking part in the constructive discussions on project based work.

Course literature:

1. Sjöblom, Stefan, K. Andersson, T. Marsden and S. Skerratt eds. *Improving Governance in Spatial Policy Interventions*. 2012. Ashgate.

2. Rhodes, R.A.W. *Understanding Governance: Policy Networks, Governance, Reflexivity and Accountability*. 1997. Open University Press.

3. The Project State. *Journal of Environmental Policy & Planning*. Special Issue Papers. Volume 11, Number 3, September 2009.

4. Special Issue: Projectified Politics. *The Role of Temporary Organisations in the Public Sector*, *Scandinavian Journal of Public Administration*, 2013: (17)2

Project Management

370188.0

5 credits (Public administration)

Advanced level

Web-based course

Offered: Spring 2015 by the Open University at Åbo Akademi University

Lecturer: PD Catharina Groop

Contact: Carina Gräsbeck (carina.grasbeck[a]abo.fi)

Registration: <https://web.abo.fi/fc/anmalningsdb/>

Aim and contents: As a result of a broad societal development which has taken place during the last decades - often referred to from a political perspective as "from government to governance" - projects have emerged as important governance instruments. This has resulted in a transition from traditional politics, which implicitly has been based on stability and longevity, to new forms of governance, which explicitly are based on just-in time actions such as projects and issue-based collaborations in networks and programs.

This course focuses on projects, i.e. time-bound, collective activities aimed at achieving a given result, and their management. Project management is defined as the process of planning, organizing, motivating, and controlling resources to achieve specific targets. The backbone and point of departure of the course is the project cycle, which outlines the different phases of a project. The course introduces students to the intricacies of these different phases as well as key issues from a project management perspective. These include e.g. stakeholder involvement, risk management, information management and learning.

Learning outcomes: After completing the course the student should be able to:

1. outline the different phases of the project cycle and the way they relate to one another
2. explain why the different phases are of importance when managing projects
3. conduct a basic situation analysis so as to come up with a draft project plan/document
4. give examples of ways in which stakeholders can and should be involved during a projects lifespan
5. explain the concept of monitoring, and list tools used to review progress
6. conduct a basic project evaluation against a given project plan/document.

Teaching methods: Web-based course: written assignments, discussions and readings

Entry requirements: (No entry requirements at the Open University.)

Target group: a) students at the open university, b) exchange students, c) graduate students at Åbo Akademi

Form of assessment: Assignments in Moodle.

Course literature (preliminary):

1. Eskerod, P and Anna Lund Jepsen. *Project stakeholder Management. Fundamentals of Project Management*. 2013. Gower Publishing.

2. Lock, Dennis. *The Essentials of Project management*. 3. ed. 2007. Gower Publishing.

3. Müller, Ralf. *Project Governance*. 2009. Gower Publishing.

Self-study courses in Public administration

The examination in self-study courses is decided by the responsible teacher for each course. As the examiner of the subject, Professor Marko Joas is responsible for a majority of them. For more information about the possibility to complete courses, please contact Professor Marko Joas, marko.joas[a]abo.fi /+358 2 215 4561 or the responsible teacher (if indicated below). Professor Joas has tutoring hours on demand.

Many of the courses have course literature in Swedish. If the student cannot read Swedish the teacher will try to find corresponding course literature in English.

Most of the self-study courses are examined by:

A) Written assignment. The student collects the literature for the course and only after that contacts/visits the responsible teacher to discuss and define an essay title. The assignment should mainly be based on course literature but the students can also include external material. The topics/titles are analytical and have to cover a rather large part of the literature. There is no time limit for the task. The expected length of a paper for 10 credits is about 18-25 pages, for 5 credits about 12-20 pages, however, the grading is based on the quality of the paper, not quantity. Regular follow-up of the progress is required.

B) Written assignments using Moodle.

C) As a written exam. The student pre-registers at the responsible teacher, reads the literature and writes the exam on as an e-exam or upon agreement. The responsible teacher will define a free number of questions for the students to answer with short essays within a time limit of 4 hours.

Environmental Governance at the Local Level

370156.0

10 credits

Intermediate level

Self-study course

The Nonprofit Sector and the Civic Society

370159.0

10 credits

Intermediate level

Self-study course

Regions as Politico-administrative systems

370162.0

10 credits

Intermediate level

Self-study course in Moodle

Responsible teacher: Siv Sandberg (siv.sandberg[a]abo.fi)

The Policies of Public Sector Reform

370164.0

10 credits

Intermediate level

Self-study course

Responsible teacher: Siv Sandberg (siv.sandberg[a]abo.fi)

Developing Local Democracy

370187.0

10 credits

Intermediate level

Self-study course

Organization Theory II

370170.0

10 credits

*Advanced level**Self-study course in Moodle*

Responsible teacher: Linnéa Henriksson (linnea.henriksson[a]abo.fi)

The State and the Market

370175.0

10 credits

*Advanced level**Self-study course***Policy Processes in the EU - the Case of Environmental Governance**

370177.0

10 credits

*Advanced level**Self-study course***Multi-Level Governance in the Baltic Sea Region**

370186.0

5 credits

*Advanced level**Self-study course*

Psychology and logopedics

Logopedics/Speech-language pathology

The subject of logopedics/speech-language pathology offers two self-study courses on advanced level in English. In addition the students of logopedics can attend some courses, which are offered in English in psychology. For more information please contact the amanuensis of logopedics (logopedi@abo.fi).

Literature examination I

108530.1

3 credits

*Advanced level**Self-study course**Offered: Autumn 2014 and spring 2015*

The student will deepen his/her knowledge on three different areas of logopedics/speech-language pathology. The exam comprises two to three books and/or scientific articles, which can be chosen with the examiner.

Literature examination II

108530.2

5 credits

*Advanced level**Self-study course**Offered: Autumn 2014 and spring 2015*

The student will deepen his/her knowledge on five different areas of logopedics/speech-language pathology. The exam comprises two to three books and/or scientific articles, which can be chosen with the examiner.

Psychology

Most of the courses in English within psychology are offered jointly together with the University of Turku and take place on either of the two campuses. International students can attend all of these courses irrespectively of arranging university. To sign up for a course, send an email to the amanuensis (Åbo Akademi University) at least one week before the course starts. Most of the courses on offer require basic studies in psychology as a prerequisite. However, there are some exceptions. For course information please see <http://www.abo.fi/institution/psychologyenglish>

Psychopharmacology

118352.0

3 credits

*Intermediate level**Lectured course**Offered: Autumn 2014*

Lecturer: Hämäläinen

Prerequisites: Neuropsychology/Cognitive psychology (or comparable knowledge)

PSYCHOLOGY AND LOGOPEDICS

The course provides basics of the mechanisms of drug and substance effects on central nervous system and of the neurobiology and psychopharmacology of psychic disorders and addictions.

Course registration and admission: Contact Yasmin Nyqvist, ynyqvist@abo.fi at least one week before the course begins.

Psychology of language

118709.1

3 credits

Basic level

Lectured course

Offered: Autumn 2014

Lecturer: Hyönä

Prerequisites: Neuropsychology/cognitive psychology (or comparable knowledge)

Goals: The students acquires knowledge about the mental processes required to comprehend and produce language.

Contents: The course covers topics such as spoken and written word recognition, sentence and text comprehension, and spoken and written language production.

Course registration and admission: Contact Yasmin Nyqvist, ynyqvist@abo.fi at least one week before the course begins.

Consciousness and brain

118350.0

5 credits

Intermediate level

Lectured course

Offered: Autumn 2014

Prerequisite: None

Lecturer: Revonsuo

This course gives an overview of the biological approach to the study of the mind, or cognitive neuroscience. After this course the student will be able to define what cognitive neuroscience is and describe how it relates to other branches of science, especially psychology and neuroscience. The student will also be able to describe the most important methods of cognitive neuroscience and some major lines of research and specific research topics within cognitive neuroscience. Additionally, the course includes a voluntary seminar (3 credits) where the student will focus more deeply on one topic in the study of consciousness, read some original literature on it, write an essay on it and present it for discussion in the seminar group. The seminar will take place only if a minimum of 4 students register for it, and is restricted to a maximum of 20 students. After the seminar, the student will have a deep understanding of several specific research problems in the study of consciousness.

Course registration and admission: Contact Yasmin Nyqvist, ynyqvist@abo.fi at least one week before the course begins.

Image Perception and Cognition

130000.0

5 credits

Basic level, no prerequisites

Lectured course

Offered: Autumn 2014

Lecturer: Tarja Peromaa

Contact: Fred Andersson, franders@abo.fi

Aim: The aim of the course is to familiarize the students with the basic issues in the structure and function of the human visual system. Special emphasis is put on current research findings in visual neuroscience.

Contents: Following the completion of course, the students are expected to be able to:

- describe the basic neural structure and function of the human visual system from retina to the visual cortex
- understand the active nature of human vision and how incoming visual information is compressed in the system
- describe major behavioral phenomena in spatial and color vision, movement perception, object recognition, and visual attention
- describe some major higher-order visual deficits that have informed us about the structure and function of visual perception

Mode of study: Lectures (16h), online tests (10 h) reading (99 h)

Prerequisites: None

Target audience:

1. Students registered for the study module Visual studies at Åbo Akademi University or for the Master's Degree Program in Biomedical Imaging jointly organized by Åbo Akademi University and the University of Turku.
2. Other students and exchange students of Åbo Akademi University.

Form of assessment: Final written exam based on the course book.

Course literature:

Snowden, Robert et al., "Basic Vision: An introduction to Visual Perception", Oxford University Press 2006, Chapters 0-11.

Course registration and admission: Contact Yasmin Nyqvist, ynyqvist@abo.fi at least one week before the course begins.

Male and female sexual dysfunctions

118259.1

4 credits

Advanced level

Lectured course

Offered: Spring 2015

Lecturer: Jern

Prerequisites: for students majoring in Psychology

The course aims to provide an overview of sexual dysfunctions in both men (e.g. erectile dysfunction and ejaculatory disorders) and women (e.g. orgasmic disorders and problems relating to sexual pain). Epidemiology and etiological factors will be emphasized, and the dysfunctions will be considered and discussed from evolutionary and cultural perspectives. The course will employ an evidence-based approach and invite students to critically review and discuss contemporary definitions of sexual dysfunctions as well as currently available treatment options. A special half-day seminar concerning problems relating to lust and sexual desire with group assignments and discussion will also be arranged. Clinical aspects of treatment of sexuality disorders will also be considered and discussed.

Course registration and admission: Contact Yasmin Nyqvist, ynyqvist@abo.fi at least one week before the course begins.

Cognitive neuroscience

5 credits

Basic level

Lectured course

Offered: Spring 2015

Lecturer: Hämäläinen

Prerequisites: Neuropsychology/cognitive psychology (or comparable knowledge)

Course registration and admission: Contact Yasmin Nyqvist, ynyqvist@abo.fi at least one week before the course begins.

Social psychology**118302.0****4 credits****Basic level****Lectured course****Offered: Spring 2015**

Lecturer: Eneback, Henning

Prerequisites: none

The aim is to give the participants basic knowledge about theories and concepts in social psychology. After attending the course, participants should have a basic understanding of how culture and society influence people in groups and in between groups.

Course registration and admission: Contact Yasmin Nyqvist, ynyqvist@abo.fi at least one week before the course begins.

Sleep and dreaming**118358.0****3 credits****Advanced level****Lectured course****Offered: Spring 2015**

Lecturers: Erkki Kronholm ja Katja Valli

Learning outcomes: After the course the students will be familiar with various phenomena related to sleep and dreaming, and have an overview of how crucial sleep is to humans. Contents: The course topics include basic sleep physiology, the evolution of sleep, theories on sleep function, and the effects of sleep deprivation. Moreover, the students will learn about the most common sleep disorders. The course also provides basic knowledge on dreaming, including methods to study dream consciousness and theories on dream function. Teaching methods: Lectures 20 h.

Assessment: Written exam.

Grading scale: 0-5

Recommended year of study: 3. year spring and onwards.

Study materials: Selected review articles

Course registration and admission: Contact Yasmin Nyqvist, ynyqvist@abo.fi at least one week before the course begins.

Forensic psychological assessment 1**5 credits****Advanced level****Lectured course****Offered: Spring 2015**

Prerequisite: Only for students majoring in psychology or law

Lecturer: Pekka Santtila

The aim of the course is to give an overview of forensic psychology and issues related to expert witnesses. The course will end with a mock trial with the students in either the role of an expert or a lawyer. The topics addressed in the mock trial cover the most important types of forensic psychological assessments: forensic psychiatric evaluations, child sexual abuse evaluations, dangerousness assessments and evaluations related to eye witnessing.

Course registration and admission: Contact Yasmin Nyqvist, ynyqvist@abo.fi at least one week before the course begins.

Forensic Psychological Assessment 2**5 credits****Advanced level****Lectured course****Offered: Spring 2015**

Lecturer: Pekka Santtila

Prerequisites: only for students majoring in psychology or law, Forensic psychological assessment 1 or comparable knowledge

During the course, the participants will work on a real forensic case under supervision producing a statement for the use of a court of law (or if no pending cases can be used, the work will be on older cases). The cases will be discussed during a seminar at the end of the course.

Course registration and admission: Contact Yasmin Nyqvist, ynyqvist@abo.fi at least one week before the course begins.

Self-study courses

The following self-study courses offered by the Department of Psychology at the University of Turku are available to *exchange students within the field of psychology* at Åbo Akademi University. Please note that you must first have pre-approval to take the self-study courses, please contact the international office, international@abo.fi. After receiving pre-approval please e-mail Minna Varjonen (minna.varjonen@utu.fi) for information about examination dates and registration.

For more information about courses in English in psychology in collaboration with the Dept. of Psychology, University of Turku, see: www.abo.fi/psykologi -> *Psychology courses offered in English*

Cognitive Processes**PSYK4007****4 credits****Self-study course****Offered: Autumn 2014 and spring 2015**

Please read the following content of the book to be examined:

Eysenck: Fundamentals of cognition, 1. edition, chapters 8-28

OR The same book but the 2. edition, chapters 3-12

Responsible teacher: Jukka Hyönä ja Mika Koivisto

Cognitive Neuroscience**PSYK3399****4 credits****Self-study course****Offered: Autumn 2014 and spring 2015**

Please read the following content of the book to be examined:

Gazzaniga, M.: Cognitive neuroscience: the biology of the mind

Responsible teacher: Heikki Hämäläinen

Clinical Neuropsychology**PSYK3411****5 credits****Self-study course****Offered: Autumn 2014 and spring 2015**

Please read the following content of the book to be examined:

Kolb & Whishaw: Fundamentals of Human Neuropsychology, 5. edition, chapters 11-28 and Anderson, Northam & Wrennall:

Developmental Neuropsychology: A Clinical Approach. Brain,

Behaviour and Cognition, chapters ? (to be agreed with the

examiner)

Responsible teacher: Heikki Hämäläinen

History of Psychology**PSYK3136****4 credits****Self-study course****Offered: Autumn 2014 and spring 2015**

Please read the following content of the book to be examined:

Hothersall: History of Psychology, 3. edition and James: Psy-

chology: A briefer Course, chapters 1, 7-27

Responsible teacher: Antti Kärnä

SOCIAL SCIENCES

Social Psychology I

PSYK3401

5 credits

Self-study course

Offered: Autumn 2014

Please read the following content of the book to be examined:

Franzoi: Social Psychology and Pennington, Gillen & Hill: Social Psychology (chapters 1-6).

Responsible teacher: Ari Kaukiainen

Social Psychology II

PSYK3402

4 credits

Self-study course

Offered: Autumn 2014 and spring 2015

Compulsory previous studies: Social Psychology I.

Please read the following content of the book to be examined:

Fiske & Taylor (2013): Social Cognition. From Brains to Culture and Johnson & Johnson: Joining Together

Responsible teacher: Ari Kaukiainen

Social Sciences

Sociology

The aim of the Sociological Unit at Åbo Akademi University is to inform students about the sociological approaches and methods that facilitate an understanding and interpretation of the different stratification systems of society - gender, class, age and ethnicity - and how these relate to different types of social behaviour.

We also offer the exchange students to write examinations in English for our self-taught reading courses.

Swedish-Speaking Finns as a Minority

380119.0

5 credits

Intermediate level

Lectured course

Offered: Autumn 2014

Lecturers: Professor Susan Sundback et al.

Aims and content: The course offers insight in the Finland Swedish minority from a range of sociological perspectives. During the course, research results obtained in the social sciences are presented. The course provides knowledge on the history of the minority position, the demographic developments, migration patterns, bilingualism and the current social and political position of the minority as well as information about organizations in Swedish-speaking Finland. Comparisons are made with other linguistic minorities in Europe

Prerequisites: Basic level of social studies

Target audience: Year 2 upward

Form of assessment: Lectures and group discussions, written assignments

Contact hours: 22 h

Course literature:

McRae, Kenneth. 1997. Conflict and Compromise in Multilingual Societies: Finland. Waterloo, Ontario: Wilfrid Laurier University Press. (Also published in paperback in 1999: Helsinki: Finnish Academy of Science and Letters)

Finnäs, Fjalar; O'Leary, Richard. 2003. Choosing for the Children: The Affiliation of the Children of Minority-Majority Group

Intermarriages. European Sociological Review, 19 (5): 483-499.
McRae, Kenneth. 2007. Toward language equality: four democracies compared. International Journal of the Sociology of Language, Volume 2007, Number 188 (September 2007), pp. 13-34, <http://ejournals.ebsco.com/direct.asp?ArticleID=445DB08F749F30892A0D>

Lojander-Visapää, Catharina. 2008. New Bilingualism in the Bilingual Finnish Context. Europäisches Journal für Minderheitenfragen, 2: 109-118.

As introductory reading before the course, students can also read at the brochure: Swedish in Finland - La Finlande suédophone. Available at: <http://www.folktinget.i/pdf/publikationer/SwedishInF.pdf>

Women's Studies

The programme in Women's Studies aims at an interdisciplinary approach in its teaching and research. The aim is to give students a broad knowledge of and a familiarity with feminist methodology and theory. The programme includes modules that focus upon Nordic (Scandinavian) women, involving historical perspectives as well as present issues. The fields of research are in cultural and social studies, including science studies. Within the Women's Studies programme most of the teaching is in Swedish but every year some courses are taught also in English. These are mainly on a basic or intermediate level, and can generally be taken both by students who have not taken courses in Women's Studies before and students who have. Familiarity with the basic concepts in feminist theory and research is, however, preferable. Supervision in English can also be arranged individually. In addition to the courses mentioned here, it may in some cases be possible to arrange internship (5 credits) also for exchange students.

Introduction to Finnish Gender Studies

385207.0

5 credits

Basic level

Internet course

Offered: Autumn 2014

The course is organised by the Universities of Helsinki and Jyväskylä, and Hilma Network of Gender Studies. Further information is provided by aino-maija.hiltunen@helsinki.fi.

Prerequisites: None.

Contents: The course centers around seven themes: nationality, normativity, emotions, home and domesticity, consumption and gender, sex and public space, and intersectionality, through which the students will gain an insight into Finnish society, Finnish research on gender and gendered power, normativity, and intersectionality in Finnish context.

Learning outcomes: The students will gain knowledge of the central themes of Women's and Gender Studies with a specific Finnish perspective.

Teaching methods: Introduction to Finnish Gender Studies is an internet based course that is carried out in the Moodle learning environment.

Form of assessment: For each theme the students will read academic texts and other material available in the internet and discuss them in groups in the Moodle learning environment.

Target audience: The course is aimed at the exchange students of women's and gender studies in Universities of Helsinki, Joensuu, Jyväskylä, Lappeenranta, Oulu, Turku and Åbo Akademi

Nordic Perspectives on Gender, Equality and Welfare

385236.0

10 credits

Intermediate/Advanced level

Lectured course

Offered: Autumn 2014

Prerequisites: Basic knowledge of feminist thoughts and concepts

Lecturers: Harriet Silius, et al.

Contents: A generous social welfare state as a foundational element for gender equality is an important part of the self-imaging of the Nordic countries. A state policy, social democratic politics, strong unions and a tradition of equality in education have, no doubt, contributed to the establishment of the so called "Nordic model". Although this is still part of the official rhetoric, feminists, gender researchers and queer theorists have started questioning the explicit and implicit normative aspects of the arrangement. The course outlines the establishment of the Nordic welfare state thorough politics, state intervention/policy, and ideology, and addresses contemporary critical gender issues. Issues from all the Nordic countries will be discussed. Comparative analysis and transnational perspectives are encouraged throughout the course. Learning outcomes: The course aims to widen the understanding of the welfare state and Nordic feminism by juxtaposing conflicting views on the positive and negative effects of the so called Nordic model. After the course, the student will be able to understand and identify key features of the Nordic welfare state and its historical, political and ideological foundations in relation to gender: work, health, political power, et cetera. Teaching methods: Lectures form the core of the course. Lectures are thematic and active participation will require students to prepare by reading assigned literature in advance. Detailed reading instructions and questions will be provided in a study handbook. Seminars will be arranged around key theoretical texts so that students can bring in different perspectives on the material.

Examination: Students will complete an essay on a theme in connection to the course. The essays can be connected to an area of special interest for the student, or chosen from a number of questions prepared by the teachers.

Students: The students are expected to be 1) advanced students in Women's Studies, or 2) connected to the recently established EGALIS-cooperation between Women's Studies in Åbo and the Université Lumière de Lyon 2, or 3) participants in the Master's Program in Nordic Studies or in other English-speaking ÅA-Master's programmes.

Course literature:

1. Critical studies of gender equalities: Nordic dislocations, dilemmas and contradictions, edited by Eva Magnusson, Malin Rönnblom and Harriet Silius. Gothenburg, Makadam, 2008
2. Gender equality and welfare politics in Scandinavia : The limits of political ambition? Edited by Kari Melby, Christina Carlsson Wetterberg, Anna-Birte Ravn. Bristol, Policy Press, 2008.
3. The Discursive Politics of Gender Equality. Emanuela Lombardo, Petra Meier, Mieke Verloof, Routledge, 2009.

Thematic studies connected to MA thesis

358308.0

10 credits

Advanced level

Self-study course

Offered: Autumn 2014 and spring 2015

Lecturer: Harriet Silius

Prerequisites: Introductory knowledge of Women's/Gender Studies.

Contents: Thematic course that helps the student to acquaint with earlier research on the specific field of the student's Master's Thesis.

Learning outcomes: The student learns to seek, evaluate and analyse earlier studies and research material that is relevant to the student's Master's Thesis. The student learns to acquire knowledge from a broad range of academic texts, to acquire understanding of key themes in the specific field of the Master's Thesis, and to write an own scientific text in which the student analyses and discusses earlier studies.

Teaching methods: A specific reading list related to the theme of the student's Master's Thesis will be compiled with the teacher. The student writes an essay that includes discussion.

Thesis seminar

385305.0

5+ 5 credits

Advanced level

Seminar

Offered: Autumn 2014 and spring 2015

Lecturer: Harriet Silius

Prerequisites: Introductory knowledge of Women's/Gender Studies.

Contents: A seminar in which students' own texts are discussed.

Learning outcomes: The student learns to formulate research questions and to conduct an own research process. The student learns to write scientifically, to discuss the students' own and others' texts constructively, to present research questions and arguments both orally and in written form, and to reflect on theoretical, methodological and ethical questions related to scientific research.

Teaching methods: Discussion of the seminar participants' texts, exercises in scientific writing, presentations.

Form of assessment: The student writes a scientific text related to the Master's Thesis.

Target audience: Students who work on their Master's Theses. Course literature: Decided with the teacher according to the theme of the Master's Thesis. Major theoretical perspectives within Gender Studies and postcolonial feminist theory are made familiar through a study of texts. One thematic field (health, poverty, education, democracy) will be studied more thoroughly by each student through a case study project.

Learning outcomes: After the course the student has the ability to critically analyze the meaning of gender in the different lines of development thinking and in development co-operation practices. The students can understand and identify differences between various theories on gender, as well as diversities in gender systems in different contexts.

Learning methods: Reading, video lectures, on-line discussions in teams, case study. Internet platform to be used: Moodle.

Internet culture and gender

385121.0

5 credits

Basic/Intermediate level

Lectured course

Offered: Spring 2015

Teacher: Ann-Charlotte Palmgren, PhD (apalmgre@abo.fi)

Prerequisites: Basic knowledge of feminist thoughts and concepts

Contents: Online participants, like the researchers who study them, present a range of views about the significance of

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gender online. The aim of the course is to discuss and analyze internet culture, social media and gender from a feminist perspective. Through case studies the course examines how gender, sexuality, femininity and masculinity are constructed online (in for example blogs, social networking sites, (massively multiplayer) online games. Through these case studies, the course will consider how the construction of gender and sexuality is related to questions about normativity and power. Learning outcomes: After completing the course, the student is expected to be able to show that she/he can analyze relationships between gender and internet culture. The student is expected to be able to relate these relationships to normativity, power, time, place and context, and be particularly familiar to cyberfeminism in a Nordic context.

Teaching methods: The course will consist of both lectures and seminars.

Form of assessment: The assessment will consist of assignments throughout the course.

Target audience: The students are expected to be 1. exchange students, 2. undergraduate and graduate students at Åbo Akademi University

Workload: 125 hours of work, equaling 5 ECTS (European Credit Transfer System)

Teachers: TBA

Format:

- Lectures
- Group work (home groups & expert groups)
- Panels
- Final essay
- All participants are expected to participate in the entire programme of the course.

Feminist perspectives on equality work

5 credits

Advanced level

Offered: Spring 2015

Teacher: Msc Pauline Hortelano

Literature: TBA

Aim: This course will look into contemporary equality issues and concerns in Finland using intersectionality as a conceptual tool and starting point for analysis. An overview of relevant phenomenon (e.g. migration, social activism), discourses, and debates providing the impetus for equality work will ground the discussions; and various existing approaches to equality work in Finland, the EU and abroad will be studied.

Learning outcomes: At the end of the course, students will be familiarized through readings and discussions with theoretical perspectives and critiques concerning equality work within gender studies and postcolonial feminist theory. They will likewise be exposed to actual practices of equality work and familiarized with its challenges and complexities through short fieldworks in their chosen thematic area/equality issue and organizations.

Gendered and embodied subjectivities

5 credits

Basic level

Offered: May 2015

The summer school is an intensive introduction to developments from early perspectives to critiques and contemporary developments in constructivist thinking. The course focuses on developments in postcolonial and intersection theories. Emphasis is placed on social construction of both gender and embodiment and the work of central feminist theorists in this area. The course explores the links between critical thinking about gender and critical understandings of knowledge. The summer school has a specific focus on the body and it will explore how bodies are policed and regulated by institutions, practices and discourses, how bodies can be analysed, represented and explored in relations to resistance, agency and subversion. We will focus on a range of visual texts including documentaries, feature films, media images and artwork.

Focus areas will be: Policing/ regulating bodies, Representations of diseased, disabled and un/altered bodies, Beauty, pornography and eroticism, The body as a site agency and resistance

Theology

Church History

Church history as an academic discipline is connected both to theology and history. Church history is concerned with how the Christian faith has developed and has been expressed from the time of Jesus until today, for instance the growth of the Christian church, the development of church institutions, religious leaders, revivalist movements and the Christian mission.

Christianity and Freedom in African History

6 credits

Intermediate level

Self-study course

Contact: Kim Groop

Aim(s): To give the student a better understanding of the striving for political and religious freedom from an African Church historical perspective.

Form of assessment: Written examination based on literature Course literature:

Prozesky (ed.): Christianity amidst Apartheid: Selected Perspectives on the Church in South Africa;

Ranger (ed.): Evangelical Christianity and Democracy in Africa;

Soothill: Gender, Social Change and Spiritual Power – Charismatic Christianity in Ghana;

Behrend: Alice Lakwena & the Holy Spirits: War in Northern Uganda 1985-97;

Taylor: Primal Vision – Christian Presence amid African Religion;

Olupona & Nyang (eds.): Religious Plurality in Africa;

Miller (ed.): Seeking Peace in Africa – Stories from African Peacemakers;

Spear & Kimambo (eds.): East African Expressions of Christianity;

Smedjebacka: Lutheran Church Autonomy in Northern Tanzania 1940-1963;

Gifford: African Christianity - its Public Role

Bediako: Christianity in Africa: The Renewal of a Non-Western Religion.

The Christian Mission

541500.0

4-10 credits

Intermediate level

Self-study course

Contact: Kim Groop

Aim(s): The course focuses on the Christian missionary movement, its history and character as well as encounters between the Christian mission and various cultures and religions.

Form of assessment: Written examination based on literature Course literature:

Bosch: Transforming Mission: Paradigm Shifts in Theology of Mission;

Neill: A History of Christian Missions;

Buhlmann: The coming of the Third Church;

Austin: China's Millions: The China Inland Mission and Late Qing Society, 1832-1905;

Hastings: A History of African Christianity;

Hastings: Church and Mission in Modern Africa;

Yates: Christian Mission in the Twentieth Century;

Bevans & Schroeder: Constants in Context – A Theology of

Mission for Today;

Sundkler & Steed: A History of the Church in Africa;

Nelson: Readings in Third World Missions;

Bowie, Kirkwood and Ardener (eds.): Women and Missions: Past and Present;

Smith: Women in mission: from the New Testament to today; Ustor: Sailing on the Next Tide: Missions, Missiology and the Third Reich.

Nedungatt: Quest for the Historical Thomas Apostle of India - A Re-Reading of the Evidence.

Church History in an International Perspective

541400.0

4-10 credits

Intermediate level

Self-study course

Contact: Ingvar Dahlbacka or Kim Groop

Aim(s): The course focuses on the Christian church around the world. Particular focus will be put on the church's situation and development in a social and cultural context.

Form of assessment: Written examination based on literature Course literature:

Imberg: In Quest of Authority: the "Tracts for the Times" and the development of the Tractarian leaders, 1833-1841;

McLeod (ed.): Cambridge History of Christianity: Vol 9, World Christianities, c.1914- c. 2000;

Gilley and Stanley (eds.): Cambridge History of Christianity. Vol. 8, World Christianities, c.1815-c.1914;

Isichei: A History of Christianity in Africa. From Antiquity to the Present;

Moffett: A History of Christianity in Asia Volume II 1500-1900; Chadwick: A History of Christianity;

Jenkins: The Lost History of Christianity: The Thousand-Year Golden Age of the Church in the Middle East, Africa and Asia.

New Testament Exegetics

Psychology and the Bible

4-6 credits

Intermediate level

Self-study course

Contact: Kari Syreeni

Aim(s): To give the student a broad picture of the Bible and biblical interpretation from various psychological perspectives.

Form of assessment: Written examination based on literature. Course literature:

J. Harold Ellens & Wayne G. Rollins, Psychology and the Bible: A New Way to Read the Scriptures, 4 volumes, 2004.

Wayne G. Rollins, Soul and Psyche: The Bible in Psychological Perspective, 1999.

James J. DiCenso, The Other Freud: Religion, Culture and Psychoanalysis, 1999.

D. Andrew Kille, Psychological Biblical Criticism, 2001.

W.W. Meissner, The Cultic Origins of Christianity: The Dynamics of Religious Development, 2000.

The New Testament as Literature

4-10 credits

Intermediate level

Self-study course

Contact: Kari Syreeni

Aim(s): To give an overview of the New Testament mainly from a literary perspective.

Form of assessment: Written examination based on literature.

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Course literature:

Robert Alter & Frank Kermode (eds.), *The Literary Guide to the Bible*, 1987/1990.

John B. Gabel & Charles B. Wheeler, *The Bible as Literature: An Introduction*, 1986.

PHEME PERKINS, *Reading the New Testament: An Introduction*, 1985.

PHEME PERKINS, *Introduction to the Synoptic Gospels*, 2007.

David Rhoads & Kari Syreeni (eds.), *Characterization in the Gospels: Reconceiving Narrative Criticism*, 1999/2004.

Kasper Bro Larsen, *Recognizing the Stranger: Recognition Scenes in the Gospel of John*, 2008.

David J. Williams, *Paul's Metaphors: Their Context and Character*, 1999.

Elisabeth Schüssler Fiorenza, *Revelation: A Vision of a Just World*, 1991/1993.

Jesus at the Movies

4-6 credits

Intermediate level

Self-study course

Contact: Kari Syreeni

Aim(s): To give an overview and a number of examples of Jesus films.

Form of assessment: Written examination based on literature, alternatively an oral (audiovisual) presentation.

Course literature:

Adele Reinhartz, *Jesus of Hollywood*, 2007.

Richard Walsh, *Reading the Gospels in the Dark: Portrayals of Jesus in Film*, 2003.

Jeffrey Staley & Richard Walsh, *Jesus, the Gospels and Cinematic Imagination: A Handbook to Jesus on DVD*, 2007.

Paul C. Burns, *Jesus in Twentieth Century Literature, Art, and Movies*, 2007.

W. Barnes Tatum, *Jesus at the Movies: A Guide to the First Hundred Years*, 2004.

Theodore Ziolkowski, *Fictional Transfigurations of Jesus*, 1972. A sample of DVDs.

Old Testament Exegetics

Old Testament exegetics are studied and taught with a broad perspective in the Faculty of Theology: as a historical, religious and literary document within the larger framework of Near Eastern history. Research in the unit is active and internationally oriented. Especially the study of Rewritten Bible (i.e. the post-biblical history of the texts in Judaism, Christianity and Islam) is a growing field of study. The Rewritten Bible Network publishes the scholarly series *Studies in Rewritten Bible* (see <http://www.abo.fi/institution/gejsrb>). Besides the two courses presented here various self study courses with literature in English can be tailored. Contact professor Antti Laato (alaato@abo.fi) or univ.teacher Pekka Lindqvist (plindqvi@abo.fi).

Introduction to Qumran (Dead sea scrolls)

2 - 10 credits

Intermediate /advanced level

Lectured course

Offered: January 2015

Contact: Pekka Lindqvist

Lecturer: Dr. Jutta Jokiranta (University of Helsinki)

An intensive two days lecture course (12 h) in January 2015.

The exact dates will be published in the course programme

of the Faculty of Theology in due course.

Course description: The Dead Sea Scrolls belong without question to the most remarkable archaeological findings of all times. The course provides an introduction into the writings, their theology and the history of research of the Scrolls and the community.

Teaching methods: lectures, reading of scholarly articles and book chapters, independent work on an essay

Ability to read Old Testament Hebrew is not necessary.

The lectures with readings and essay give 2 credits.

By reading additional literature, the student may easily expand this e.g. into 10 credits in the Old Testament exegetics course Old Testament Apocrypha and Jewish Pseudepigrapha .

Old Testament as History

521100.0

10 credits

Intermediate level

Self-study course

Contact: Antti Laato

Aim(s): To give the student a better understanding of the history of Ancient Israel and ability to read the Old testament critically as a historical source in the light of the extra-biblical material of the ancient Near East.

Content: 1) An overview over the history of Judah and Israel, 2) Old Testament as a historical source, 3) a special self study course on a topic agreed on with the teacher

Form of assessment: Written examination based on the literature

Course literature:

J. M. Miller & J. H. Hayes: *A History of Ancient Israel and Judah*
B. Halpern; *The First Historians: The Hebrew Bible and History*
L. L. Grabbe (ed.): *Can a History of Israel be Written?*

A. Laato: *Desperately Seeking Israel*, in: T. Eskola & E. Junkkaala (eds.): *From the ancient Sites of Israel* (pp. 119-148)

A. Malamat: *The proto-History of Israel: A Study in Method*, in: C. L. Meyers & M. O'Connor (eds.): *The Word of the Lord Shall go Forth* (pp. 303-313)

+ a special course in agreement with the teacher

Old Testament Apocrypha and Jewish

Pseudepigrapha

522000.0

10 credits

Intermediate level

Self-study course

Contact: Antti Laato

Aim(s): To deepen one's knowledge of the non-canonical literature, which on the one hand belongs to the history of reception (of the OT) and on the other hand forms part of the background of the early Judaism and the New Testament.

Content: 1) Old testament Apocrypha with introductory literature Soggin & Nickelsburg (4 credits), 2) Jewish Pseudepigrapha with introductory literature/essays, ca 600 pages (6 credits)

Form of assessment: Written examination based on the literature

Course literature:

J.A. Soggin: *Introduction to the Old Testament*, pp. 500-547

G.W.E. Nickelsburg: *Jewish Literature between the Bible and the Mishna*

J. H. Charlesworth: *The Old Testament Pseudepigrapha*

Judaic Studies

Judaic studies as a part of the programme of the Theological Faculty is a unique case in Finland. At Åbo akademi it is possible to choose Judaic studies as a main subject in the masters degree in Theology. The long history of Judaism is explored chronologically and thematically: from pre-Christian centuries to modern thinkers and from basics of theology to phenomena like Jewish-Christian dialogue or antisemitism. The faculty of Theology hosts the largest collection of Judaic studies and primary sources (Talmudic literature etc) in Finland and the library is open for anyone interested in the field. Contact professor Antti Laato (alaato@abo.fi) or univ.teacher Pekka Lindqvist (plindqvi@abo.fi).

Modern Judaism

10 credits

Intermediate level

Self-study course

Contact: Pekka Lindqvist

Aim(s): To give the student a better understanding of modern Judaism (1800-) and its different branches as well as a give an insight into the challenges modern Judaism face in modern world.

Form of assessment: Written examination based on the literature

Course literature:

J. Neusner: Judaism in Modern Times. An Introduction and Reader

R. Patai & E.S. Goldsmith (ed.): Thinkers and Teachers of Modern Judaism

N. M. Samuelson: An Introduction to Modern Jewish Philosophy

D. Vital: The Future of the Jews. A People at the Crossroads?

J. M. Mintz: Hasidic People. A Place in the New World

Children of Abraham with a special view on Antisemitism

10 credits

Intermediate level

Self-study course

Contact: Pekka Lindqvist

Aim(s): Children of Abraham, the three monotheistic faiths (Judaism, Christianity, and Islam) have a long parallel history which includes both peaceful contacts and conflicts. The course gives the student an introduction into the dynamics of this "abrahamic" interreligious encounter in history and present world (approx. equivalent to 5 credits) as well as focuses on a special topic antisemitism and its various forms (approx. equivalent to 5 credits).

Content: 1) Encounters of the three monotheistic religions
2) Antisemitism

Form of assessment: Written examination based on the literature

Course literature:

J. Neusner (ed.): Religious Foundations of Western Civilization
N. Solomon, R. Harries & T. Winter (eds) Jews, Christians and Muslims in Conversation

W. Horbury: Jews and Christians in contact and controversy

J. Parkes: The Conflict of the Church and the Synagogue: A Study in the origins of the antisemitism.

J. Trachtenberg: The Devil and the Jews: The medieval conception of the Jew and its relation to modern antisemitism

A. G. Bostom (ed.): The Legacy of Islamic Antisemitism (partially)

Other courses and programmes

Exchange students may choose to take courses in the following special programmes or by the following special providers listed in this section.

Asian Programme 2014

The Finnish University Network for Asian Studies is opening an additional application period for the autumn term 2014. In this application round (September 1 - 14, 2014) you can only apply to the courses that are organised in the autumn of 2014, see list below. The intake of students is max 100 per each course. Students are accepted in the programme in order of enrollment. The application form will be available on 1 September 2014.

The Asian Studies Programme is an interdisciplinary study programme, which offers students basic knowledge of East and Southeast Asia. The programme also includes a course on India ("India in the World Politics"). The programme is organised by the Finnish University Network for Asian Studies. The programme consists of online courses with lectures and exercises. It is organised in the Moodle e-learning platform on the Internet. The programme can be taken as a minor subject or in smaller course entities. The language of instruction is English. The programme is free for all students and exchange students who are registered in the Network member universities (Aalto, Jyväskylä, Lappeenranta U of Technology, Oulu, Tampere, Turku, Vaasa, Åbo Akademi). The programme is recommended for students who have already completed their first study year.

Additional information at <http://www.asianet.fi>

Finnish University Network for Asian Studies

University Teacher Silja Keva, tel. 02-333 8897, e-mail:silja.keva@utu.fi

Business in East and Southeast Asia

7, 5, or 2 credits

Web-based course

Offered: Autumn 2014 (the course starts 22.9.2014)

Additional application period: September 1 - 14, 2014

Language and Communication in East and Southeast Asia

6 credits

Web-based course

Offered: Autumn 2014 (the course starts 22.9.2014)

Additional application period: September 1 - 14, 2014

India in the World Politics

6 credits

Web-based course

Offered: Autumn 2014 (the course starts 22.9.2014)

Additional application period: September 1 - 14, 2014

Environmental Studies

Environmental Studies is a multidisciplinary subject at Åbo Akademi University. It considers environmental issues with aspects from several subjects. Courses from the following areas are included: Arts, Theology, Humanities, Political sciences, Social sciences, Legal sciences, Economics and Natural Sciences. Environmental Studies is accepted as a subsidiary (minor) subject in most study programmes at Åbo Akademi University. For further information, please contact Sinikka Suomalainen, e-mail: sinikka.suomalainen@abo.fi

Global Water Resources and Sustainable Development

200007.0

5 credits

Intermediate level

Lectured course

Offered: October-December 2014, to be confirmed

Lecturer(s): Gunnar Jacks

Contact: Sinikka Suomalainen

Aim(s) and contents: To get information about the present and future situation regarding freshwater on a global scale. To discuss options for water use to meet the millennium goals. Global water resources and their use, Water pollution, Water conflicts on different levels - interstate – societal, Water and millennium goals – challenges ahead. There will be an emphasis on Asia and Africa where the water situation will be most strained.

Learning outcomes: After the course the students should know the major problems with water resources on the global scale, and explain some cases.

Target audience: Students from all faculties interested in sustainable development and environmental issues.

Format: Lectures, presentations 21 h

Form of assessment: Lectures and public presentations by the students over a given subject or a subject chosen by themselves.

Concepts of Sustainability

200005.0

5 credits

Basic/Intermediate level

Web-based course

Offered: October-December 2014, to be confirmed

Lecturer(s): Sinikka Suomalainen, Ea Blomqvist

Contact: Sinikka Suomalainen

Aim(s) and contents: Concepts of sustainable development, processes, indicators, cases. Global, regional and local aspects. Learning outcomes: The student should know the background documents and processes of sustainability, indicators for sustainability, compare and analyze measurements, review and discuss best practices.

Target group: students from all faculties interested in sustainable development

Form of assessment: web-based course, tasks in moodle, no contact hours

Form of assessment: web-based course, no contact hours.

Sustainable Water Management: Water use and management

200008.0

5 credits

Intermediate/Advanced level

Lectured course

Offered: Autumn 2014, to be confirmed

Lecturer: doc Egon Nordström

Contact: Sinikka Suomalainen, sinikka.suomalainen@abo.fi

Aim(s) and contents: To give a professional knowledge on the state of the water resources in the Baltic region, their present use and management, and the challenge of creating sustainable water-use in the Baltic Sea drainage area. This part focuses on how water is used. The sectors agriculture, municipal water supply, and industry are treated from both quantitative and qualitative aspects. Practical management options are also presented with several case studies.

Learning outcomes: The students should be able to explain qualitative and quantitative aspects of the water use in sectors of agriculture, municipal water supply and industry.

Prerequisites: Requirements for successful participation are a basic knowledge of chemistry as well as environmental sciences.

Target audience: The course is of special interest for students with a background in e.g. geology, soil science, environmental engineering and chemistry, hydrology, ecology but other study areas may also be relevant.

Format: (24 h) Lectures, discussions, presentations.

Form of assessment: Paper/Presentation/Examination

Course literature: Sustainable Water Management in the Baltic Sea Basin.

2000. Book 2 Water Use And Management. Ed. L-C Lundin. The Baltic University Programme. 240 p. The book is available free on the internet <http://www.balticuniv.uu.se/swm/books/textbooks.htm> (and also at Åbo Akademi University Library) This course is an advanced course in the Baltic University Programme.

Registrations: to the Open University at <http://www.abo.fi/fc/anmalningsdb/>

A Sustainable Baltic Region

200004.0

5 credits

Basic/Intermediate level

Lectured course

Offered: Spring 2015, to be confirmed

Lecturer(s): NN

Contact: Sinikka Suomalainen

Aim(s) and contents: How to develop a sustainable Baltic region. Energy, material flows, sustainable agriculture, forestry and marine resources, sustainable industrial production and technology, transports, habitation, sustainable economy, ethics and law for sustainability.

Learning outcomes: The student will be able to explain and discuss sustainability issues in different sectors in the Baltic Sea Region.

Target audience: Students from all faculties interested in sustainable development and environmental issues.

Mode of studies: Lectures, group discussions, probably videoconferences in cooperation with students at universities in the Baltic region and literature studies. The course language is English.

Form of assessment: Active participation, presentations, written examination.

Format: (33 h) Studies in a group, lectures

Course literature: A Sustainable Baltic Region, booklets 1-10. The Baltic University Programme, Uppsala university. Uppsala, 1997 and/or new electronically course material in production by the The Baltic University Programme.

Registrations: to the Open University at <http://www.abo.fi/fc/anmalningsdb/>, by e-mail: opu@abo.fi

This course is an undergraduate course in the Baltic University Programme.

Sustainable Water Management: Waterscape **200009.0**

5 credits

Intermediate/Advanced level

Lectured course

Offered: Spring 2015, to be confirmed

Lecturer: doc Egon Nordström

Contact: Sinikka Suomalainen, sinikka.suomalainen@abo.fi
Aim(s) and contents: To give a professional knowledge on the state of the water resources in the Baltic region, their present use and management, and the challenge of creating sustainable water-use in the Baltic Sea drainage area. This part treats the waterscape, i.e., water resources, such as rivers, lakes, groundwater, wetlands and the Baltic Sea with its shore, coastal waters and open sea. Both basic process knowledge and physical and economical geography aspects on the water resources is given in this part.

Learning outcomes: The student should be able to explain different aspects of the water resources in the Baltic Sea Region. Teaching methods: Lectures, discussions, presentations.

Prerequisites: Requirements for successful participation are a basic knowledge of chemistry as well as environmental sciences.

Target audience: The course is of special interest for students with a background in e.g. geology, soil science, environmental engineering and chemistry, hydrology, ecology but other study areas may also be relevant.

Format: (24 h) Studies in a group led by a tutor teacher, lectures, case reports, probably videoconferences

Form of assessment: Presentations, written exam.

Course literature: Sustainable Water Management in the Baltic Sea Basin.

2000. Book 1 Waterscape 2000. Ed. L-C Lundin. The Baltic University Programme. 207 p. The book is available free on the internet <http://www.balticuniv.uu.se/swm/books/textbooks.htm> (and also at Åbo Akademi University Library) This course is an advanced course in the Baltic University Programme.

Registrations: to the Open University at <http://www.abo.fi/fc/anmalningsdb/>

Baltic University Programme

Baltic University Programme is a network of more than 200 universities and other institutions of higher education in 14 countries around the Baltic Sea in Northern Europe. The Programme focuses on questions of sustainable development, environmental protection and democracy. Baltic University Programme offers university courses at different levels. Some 8000 students study these courses yearly.

The Baltic University Programme functions through 14 National Centres. The centres are responsible for communication and information (web pages etc.). The Centre for Lifelong Learning at Åbo Akademi University functions as the Finnish Programme Centre. The Baltic University Programme courses at Åbo Akademi University are given at the open university (<http://www.abo.fi/student/en/openuniversity>).

Baltic University Programme network is coordinated by a Secretariat at Uppsala University. For more information about the Baltic University Programme please see <http://www.balticuniv.uu.se>, for Finland <http://www.bup.fi>. For further information please contact:

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20500 Åbo, Finland
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The Baltic University courses 2014-2015:

Concepts of Sustainability

5 credits

Web-based course

Offered: Autumn 2014

For course information please see Environmental Studies.

Sustainable Water Management: Water use and management

5 credits

Lectured course

Offered: Autumn 2014, to be confirmed

For course information please see Environmental Studies.

A Sustainable Baltic Region

5 credits

Lectured course

Offered: Spring 2015

For course information please see Environmental Studies.

Sustainable Water Management: Waterscape

5 credits

Lectured course

Offered: Spring 2015, to be confirmed

For course information please see Environmental Studies.

Intercultural communication

Intercultural communication is a minor subject provided by the Faculty of Arts in cooperation with the Open University. The subject deals with how to understand the challenges involved in intercultural encounters, dialogue and communication in various contexts. How can we make communication work or reach a dialogue beyond cultural barriers and stereotypes? What does intercultural competence mean and what does it require from us? How are we as individuals affected by different forms of intercultural mobility?

In addition to the lectured course you can also complete self-study courses. You are welcome to contact the examiner of the subject prof. Peter Nynäs (the department of Comparative religion) and coordinator Pian Åkerlund (Open University).

For more information please see: www.abo.fi/student/ikk

Introduction to Intercultural Communication

100700.0

5 credits

Basic level

Lectured course/ seminars

Offered: Autumn 2014

For more information please see: www.abo.fi/student/ikk

Aim: to provide perspectives on how different cultures affect our way or communication and what concepts and theories

OTHER COURSES AND PROGRAMMES

we can use in order to better recognize and analyse the relevance of cultural difference.

Entry requirements: none

Literature: In consultation with examiner

Self-study courses

Students who complete self-study courses will get individual supervision in English. Usually, a written examination in some form, or papers/reviews, is included.

Introduction to Intercultural Communication

100700.0

5 credits

Basic level

Self-study course (lectured course offered autumn 2014)

Aim: to provide perspectives on how different cultures affect our way of communication and what concepts and theories we can use in order to better recognize and analyse the relevance of cultural difference.

Entry requirements: none

Literature: In consultation with examiner

The Conceptual History of Multiculturalism

100720.2

5 credits

Basic or intermediate level

Self-study

Teacher: Mats Wickström

Contents: Multiculturalism is a contested concept in the contemporary discourse on immigration and ethnic minorities in the West. This course provides a historical perspective on the idea of the multicultural society from the hegemony of scientific racism in the first decades of the twentieth century to the ethnic revival of 1970s. Concepts discussed include race, assimilation and cultural pluralism. The course focuses on the turn from exclusionist and assimilationist models of immigration and minority policies towards more pluralistic policies of integration in a number of Western nations during the postwar period.

Intercultural encounters and cross-cultural psychology

100723.1

5 credits

Basic or intermediate level

Self-study

Teacher: Peter Nynäs

Aim: to provide understanding of psychological perspectives on individual experiences and behaviour related to cultural encounters and intercultural mobility, such as e.g. acculturation processes and culture shock.

Entry requirements: Introduction to Intercultural Communication

Literature: In consultation with examiner

Intercultural communication - critical perspectives

100724.1

5 credits

Basic or intermediate level

Self-study

Teacher: Peter Nynäs

Aim: to provide a nuanced understanding of intercultural encounters with a particular focus on interpretative dynamics and otherness and from a critical and reflexive perspective within the humanities.

Entry requirements: Introduction to Intercultural Communication

Literature: In consultation with examiner

Culture, peace and conflict

100725.1

5 credits

Basic or intermediate level

Self-study

Teacher: Peter Nynäs

Aim: to provide an understanding of the role of culture, ethnicity and religion in national and international conflicts and in particular for peace-building processes.

Entry requirements: Introduction to Intercultural Communication

Literature: In consultation with examiner

The Open University

The Open University is open to all, regardless of age and educational background. Teaching in the Open University always corresponds exactly to the university curriculum. The courses offered are equivalent in standard and quality to university teaching. Open university study consists of evening and weekend teaching. More information about courses in English arranged within the Open university can be found on the Internet at: www.abo.fi/student/en/englishcourses

Visual Studies

In professional life of Today, it is of crucial importance to be able to interpret images, and to understand their context and their significance for both individuals and Society. This kind of knowledge is also a prerequisite for international relations and intercultural communication. In scientific and scholarly work one can benefit from the use of images as source materials, and also from the ability to visualize one's own results. Ever since the Sixties scholars have used the term Visual Literacy, and the aim of the secondary subject Visuella studier at ÅAU is to provide the students with knowledge and skills in visual analysis and visual communication.

The specific aims of the program as a whole (25 ECTS) are: 1) To increase the students' visual literacy through an understanding of psychological aspects of image perception. 2) To provide an introduction into sociological aspects of images and Society. 3) To give an account of different sectors of the interdisciplinary and scientific field of Visual culture. 4) To provide knowledge of skills in visual communication, illustration and visualization of information.

Visual studies may integrate perspectives from a number of scientific or scholarly disciplines and areas, such as visual culture, psychology, sociology, literary studies, film theory, semiotics, symbol theory, visual anthropology and language studies. At ÅAU, the program in *Visual studies* is coordinated by the department of *Art History*. The program is intended primarily for students at bachelor-, master- and postgraduate level, and especially for those who use visual sources or tools in their work (e.g. in scientific/scholarly theses and papers).

For more information about the subject and on the courses offered, see our temporary homepage:

www.abo.fi/student/Content/Document/document/12454

Image Perception and Cognition**130000.0****5 credits****Basic level, no prerequisites****Lectured course****Offered: Autumn 2014**

Lecturer: Tarja Peromaa

Contact: Fred Andersson, franders@abo.fi

Aim: The aim of the course is to familiarize the students with the basic issues in the structure and function of the human visual system. Special emphasis is put on current research findings in visual neuroscience.

Contents: Following the completion of course, the students are expected to be able to:

- describe the basic neural structure and function of the human visual system from retina to the visual cortex
- understand the active nature of human vision and how incoming visual information is compressed in the system
- describe major behavioral phenomena in spatial and color vision, movement perception, object recognition, and visual attention
- describe some major higher-order visual deficits that have informed us about the structure and function of visual perception

Mode of study: Lectures (16h), online tests (10h) reading (99h)

Prerequisites: ---

Target audience:

1. Students registered for the study module Visual studies at Åbo Akademi University or for the Master's Degree Program in Biomedical Imaging jointly organized by Åbo Akademi University and the University of Turku.
2. Other students and exchange students of Åbo Akademi University.

Form of assessment: Final written exam based on the course book.

Course literature: Snowden, Robert et al., "Basic Vision: An introduction to Visual Perception", Oxford University Press 2006, Chapters 0-11.

Cultural Imagology: An Introduction**130024.1****5 credits****Intermediate level (see prerequisites)****Lectured course****Offered: Autumn 2014**

Lecturer: Anthony Johnson

Contact: Fred Andersson, franders@abo.fi

Aim: Because the study of images (and an understanding of ways in which images are constructed) is an essential component in all Humanities Research, the field of Cultural Imagology has been developed as an interdisciplinary service discipline to help researchers deepen their understanding of the issues behind image studies within their own discipline and to develop a working knowledge of selected theoretical approaches that may be of use to them in the pursuit of their own special research interests. By the end of the course, the student will have developed a working knowledge of the differences between verbal, mental, perceptual, optical and graphic images as well as a number of their social, spatial and temporal applications, and be able to write about them in an academic way. General skills developed within the course include: critical thinking, problem-solving ability, the ability to work in a multimodal or multidisciplinary way, the ability to sift out essential information, writing skills, presentation skills. Contents: Topics covered will include Cultural Imagology – An Overview; National Imagology - The Social Level; Historical Imagology - The Temporal Level; Geographical Imagology

- The Spatial Level; The Soundscape; Retrospective: What is an Image?

Mode of study: 16 h of lectures plus literature studies

Prerequisites for MA-students of English: 60 credits (ECTS) of English at university level. Prerequisites for BA-students of English: 25 credits (ECTS) of English at university level.

Prerequisites for other students: 25 credits (ECTS) of the basic Visual Studies module at Åbo Akademi University, or equivalent credits from other universities

Target audience: Masters, Licentiate and Doctoral level students within the Faculty of Humanities.

Form of assessment: One fifteen-page essay (6000 words) Adequate preparation (readings and tasks) for and active participation in seminars.

Course literature: Manfred Beller and Joep Leerssen (eds.), *Imagology: The Cultural Construction and Literary Representation of National Characters - A Critical Survey*. Series: *Studia Imagologica*, vol. 13; series editors: Hugo Dyserinck and Joep Leerssen (Amsterdam and New York: Rodopi, 2007). ISBN 978-90-420-2318-5 + selected literary texts and handouts.

Visuality and Visualization of Information**130023.1****5 credits****Basic level, see prerequisites****Lectured course****Offered: Spring 2015**

Lecturer: Patrick Sibelius et. al.

Contact: Fred Andersson, franders@abo.fi

Aim: The course aims at an historical and interdisciplinary understanding of the emerging field of data visualization, especially as regards medicine and the natural sciences. The student will acquire knowledge of how certain findings of modern psychology and vision science can be practically applied in order to improve the efficiency and accessibility of information visualization. The examination is connected to activities in which students from various disciplines can test their ability to visualize data with which they are familiar. In addition, the student also acquires background knowledge of the historical development of techniques for visualization in the West.

Contents: In the course it is demonstrated how data is transmitted with the aid of different techniques and devices of visualization. It is also shown how certain findings of modern psychology and vision science can be practically applied in order to improve the efficiency and accessibility of visualization. Concepts and notions such as visuality, information, cognition, object recognition and text/image interaction are defined and discussed. The course also includes a basic historical orientation in the history of the scientific image in the West from the Middle ages and onwards.

Mode of study: Lectures (12h), workshop exercises (6h), essay (37h), reading (70h)

Prerequisites: ---

Target audience:

1. Students registered for the study module Visual studies at Åbo Akademi University or for the Master's Degree Program in Biomedical Imaging jointly organized by Åbo Akademi University and the University of Turku, who have passed the course Image Perception and Cognition (130000.0) at Åbo Akademi University.
2. Other students and exchange students of Åbo Akademi University.

Form of assessment: Learning portfolio

Course literature: Ware, Colin, "Visual Thinking in Design", Morgan Kaufmann 2008, ISBN/ISSN: 0123708966. Selected scientific papers and handouts by Ware, Wooding and others.

OTHER COURSES AND PROGRAMMES

Applied Cultural Imagology

130025.1 and 130025.2

5 and 3 credits

Intermediate level/Advanced level (see prerequisites)

Lectured course/Independent research exercise

Offered: Spring 2015

Lecturer: Anthony Johnson

Contact: Fred Andersson, franders@abo.fi

Aim: See "Cultural Imagology: An Introduction"

General skills developed within the course: See "Cultural Imagology: An Introduction"

Contents: Dimensions of the Image in Humanistic Research. Relevant Schools and theoretical approaches within Image Studies will be examined and applied in accordance with the needs and interests of participants in the course. But individual sessions are expected to include: Iconology and Imagology; Metaphor and Bodily Movement; Taste and Smell in the Humanities; Reverie and the Poetics of the Image; Image and Identity (The Finland-Swedish Milieu as an Example); along with Presentations I (Cultural / Philosophical focus); Presentations II (Linguistic / Literary focus); Presentations III (Historical / Geographical focus); and Presentations IV (Combined/Alternative focus)

Mode of study: 16 hours of seminars, literature studies

Prerequisites for MA students of English: 60 credits (ECTS) of English at university level. Prerequisites for BA students of English: 25 credits (ECTS) of English at university level. Prerequisites for other students: 25 credits (ECTS) of the basic Visual Studies module at Åbo Akademi University, or equivalent credits from other universities

Target audience, 5 ECTS alternative: Masters, Licentiate, and Doctoral students within the Faculty of Humanities or Students interested in pursuing the new Digital Humanities options. Target audience, 3 ECTS alternative: Students of Visual Studies, English Language and Literature, Digital Humanities, and Exchange students from all faculties.

Form of assessment: A 20-minute oral presentation and one ten-page essay (4000 words), adequate preparation (readings and tasks) for and active participation in seminars (5 ECTS alternative, 130024.1). A 20-minute oral presentation and a course journal (minimum 3000 words), adequate preparation (readings and tasks) for and active participation in all sessions (3 ECTS alternative, 130024.2).

Course literature: Manfred Beller and Joep Leerssen (eds.), *Imagology: The Cultural Construction and Literary Representation of National Characters - A Critical Survey*. Series: *Studia Imagologica*, vol. 13; series editors: Hugo Dyserinck and Joep Leerssen (Amsterdam and New York: Rodopi, 2007). ISBN 978-90-420-2318-5 + selected literary texts and handouts.

Photography and the Moving Image

130026.1

5 credits

Intermediate level (see prerequisites)

Lectured course

Offered: Spring 2015

Lecturer: Antony Fredriksson, Sofia Sjö

Contact: Fred Andersson, franders@abo.fi

Aim: The course gives an introduction to the history of photography and film and the West, and shows how the invention of moving images was a result of the changed worldview in the modern era. We introduce early and contemporary film theory, and describe the technical and scientific breakthroughs that made it possible to create moving images. The course also presents different kinds of cinema. In particular we analyze silent movies, documentaries and video art. The course belongs to

the mandatory part of the intermediate level in Visual Studies. Contents: After completing the course the student should be able to tell the most important historical events and technical innovations in the development of photography and film. The student should also be able to describe a number of influential film theories. There should be documented proof that the student has acquired basic skills in montage analysis and awareness of the importance of the moving image in contemporary visual culture.

Mode of study: Lectures (12h), film screenings and discussions (6 h) reading (107 h)

Prerequisites: 25 credits (ECTS) of the basic Visual Studies module at Åbo Akademi University, or equivalent credits from other universities.

Target audience:

1. Students registered for the study module Visual studies at Åbo Akademi University.
2. Other students and exchange students of Åbo Akademi University.

Form of assessment: Final written exam based on the course book.

Course literature: Clarke, Graham, *The Photograph*, London: Thames & Hudson 1997 (ISBN 978-0-19-284200-8). Selected papers by Bazin, T-Minh-Ha, Turner and others.

Language courses

Language courses are offered by the Language Centre at Åbo Akademi University, The Open University and the Swedish adult education centre ("Arbis"). In addition, Åbo Akademi University arranges an Intensive Swedish language course (5 ECTS/credits) in August before the term begins.

Swedish language Summer School, August 2014

Åbo Akademi University arranges an Intensive Swedish language course (5 ECTS/credits) in August before the regular teaching begins. This course is open to all exchange students from partner universities.

Intensive Swedish language course, level 1 5 credits

Offered: August 2014, NB! separate application process, application deadline 6.6.2014

Objectives and teaching methods: Participants learn to understand and use Swedish in everyday situations, such as social interaction, obtaining information about public services and making telephone calls. The students learn to read and write short texts on familiar themes, and to write and talk in simple terms about their immediate social environment and surroundings. The course also offers a good foundation on which to build further studies in the Swedish language. The participants practise the language through reading of texts, work in pairs, group work, dialogues, group discussions and oral and written exercises. The lessons will be taught in Swedish and English.

Learning outcomes: After completing the course each student is expected to have achieved at least level A1 in the Common European Framework of Reference for Languages (CEFR).

After the course the students should be able to:

- read and understand short and simple texts as well as other written material pertaining to everyday things with which they are familiar
- read and understand the main points of simple written instructions as well as understand and be able to react upon carefully pronounced oral instructions in everyday situations
- understand and be able to use frequent words and simple phrases
- participate in simple and carefully pronounced interaction on topics pertaining to themselves, their family and their own sphere of interest, including asking and answering simple questions, using public transport and relevant public services, exchanging greetings, shopping and asking for help
- give basic information about themselves in writing, e.g. filling in simple forms and questionnaires
- produce short and simple texts describing familiar circumstances, e.g. short letters or notes
- participate in simple conversations about everyday situations and topics, e.g. family life, their home or their studies

Course registration: In order to take part in the course a separate course application has to be made. The application deadline is 6.6.2014. The course starts 1 August and course participants must arrive in Åbo/Turku by 1 August. The course finishes with an examination on the 26 August and the orientation course for exchange students begins the day after. To access the application form and to get more information about the course, please see www.abo.fi/student/en/eilc.

Centre for Language and Communication

The Centre for Language and Communication provides language teaching for students at Åbo Akademi University. Language competence is considered a key component of any degree here. Each department has its own requirements concerning language competence and the Language Centre offers courses to meet these requirements and generally improve language skills. Language courses in Swedish and Finnish are available for exchange students. Swedish and Finnish language courses for international students are initially taught in English.

Address:

Fabriksgatan 2

FI-20500 Åbo, Finland

Phone: +358 (0)2 215 4365 (office)

+358 (0)2 215 4389 (director)

E-mail: csk-direktor@abo.fi or csk-kansli@abo.fi

www.abo.fi/csk

Swedish as a Foreign Language, level 1 5 credits

Offered: Autumn 2014, Spring 2015

Registration: Information about registration for the course will be given at the orientation for exchange students.

If you wish to participate in Swedish as a Foreign Language, level 1 this must be indicated in the learning agreement/study plan.

Aim(s): The course gives the students a basic knowledge of the Swedish language. Participants learn to understand and use Swedish in everyday situations such as obtaining information about public services, making telephone calls and in their social circles. They also learn to read and write short texts on familiar themes, and to write and speak in simple terms about their immediate social environment and surroundings. Contents: Students are familiarised with the Swedish language and learn something about everyday life in both Finland and Sweden. They learn to describe situations both in the home and outside the home. They also talk about health matters and the weather.

Participants learn the basic of grammar (nouns, conjugations of adjectives, verb tenses, pronouns, numerals, and word order in main clauses). The language is practised both in written form and in communicative situations, such as, pair dialogues and interviews.

Language practice also takes place in the language laboratory. Course literature: Althén et al. Mål 1, 4th edition.

Course books can be purchased at the office of Centre for Language and Communication.

Level: A1 according to the Common European Framework of References for Language.

Target audience: Primarily students at Åbo Akademi Uni-

LANGUAGE COURSES

versity.

Prerequisites: No previous knowledge required.

Participants min/max: 10/20

Contact hours: In class (56 h), independent work (74 h) Examination participation rights: Active participation (75 %) and successful completion of assignments

Swedish as a Foreign Language, level 2

5 credits

Offered: Autumn 2014, Spring 2015

Registration: Through MinPlan: www.abo.fi/minplan

Aim(s): The course gives the students the possibility to further improve their language abilities after participating in "Swedish as a foreign language, Level 1". Participants learn to understand Swedish in various everyday situations and partake in short informal discussions and obtain a functional everyday working vocabulary, as well as being able to write somewhat longer cohesive texts. The course participants learn to read and understand longer, more demanding texts.

Contents: The course is a direct continuation of Swedish as a Foreign Language, Level 1. Participants are further acquainted with everyday life and celebrations in Sweden and Finland; practise talking about housing, jobs and feelings. Some traditions and festivals are discussed.

Participants write messages, and short stories about familiar situations and events. Grammar points are revised and extended to include comparative and superlative adjectives, indirect speech, more verb tenses, more forms of adjectives and nouns, and word order in subordinate clauses. All the course work is practiced in written and spoken communication exercises.

Course literature: Althén et al. *Mål 2*, 4th edition.

Course books can be purchased at the office of the Centre for Language and Communication

Level: A1–A2 according to the Common European Framework of References for Language Target audience: Primarily students at Åbo Akademi University.

Prerequisites: Completed Swedish as a foreign language, Level 1 with grade 2 or higher or equivalent knowledge.

Participants min/max: 10/20

Contact hours: In class (56h), independent work (74h) Examination participation rights: Active participation (75 %) and successful completion of assignments

Swedish as a Foreign Language, level 3

5 credits

Offered: Autumn 2014

Registration: Through MinPlan: www.abo.fi/minplan

Aim(s): The course gives the students the possibility of further improving and extending their language skills after having completed Swedish 2 as a foreign language. The students learn to write syntactically more demanding texts, and are also offered the opportunity to practise their oral skills in the form of discussions about current topics or personal subjects. Students are also expected to be able to use authentic material in Swedish, such as newspaper articles and similar texts. Contents: Students write texts based on a given title or in the form of a review. The students are also given the opportunity to practise oral language skills through class discussions, and discussions in small groups. The teaching language is Swedish. Participants learn passive, participle, and other grammatical structures according to the wishes or needs of the group.

Level: A2-B1 according to the Common European Framework of References for Language Target audience: Primarily students at Åbo Akademi University.

Prerequisites: Completed Swedish as a foreign language, Level 2 with grade 2 or higher or equivalent knowledge.

Participants min/max: 8/20

Contact hours: In class (56h), independent work (74h) Examination participation rights: Active participation (75%) and successful completion of assignments

Finnish as a Foreign Language, introduction course

2 credits

Offered: Autumn 2014, period 1 and spring 2015, period 3.

The course is the first half of Finnish as a Foreign Language, level 1 (see below).

Registration: Through MinPlan: www.abo.fi/minplan

Aim(s): To give students basic knowledge of the Finnish language. They learn to understand and cope with different everyday situations in Finnish. The course concentrates on practical language use; grammar is discussed to a lesser extent.

Contents: During the lectures, students learn useful everyday phrases in different situations and the main features of pronunciation, grammar and vocabulary are discussed. The language is practised mainly in communication in various pair and small group work but also in different writing assignments. The course also includes simple reading and listening comprehensions.

Level: A1 according to the Common European Framework of References for Language.

Target audience: Students at Åbo Akademi University.

Prerequisites: No previous knowledge required.

Participants min/max: 10/20

Course literature: Gehring-Heinzmann, Suomen mestari 1. Suomen kielen oppikirja aikuisille. 2011. FINN LECTURA.

Format: In class (28h), independent work (24h) Examination participation rights: Active participation (75 %) and successful completion of assignments

Finnish as a Foreign Language, level 1

5 credits

Offered: Autumn 2014, Spring 2015

Registration: Through MinPlan: www.abo.fi/minplan

Aim(s): To give students basic knowledge of the Finnish language in order to be able to understand some spoken and written Finnish and to become familiar with the basics of Finnish grammar.

Contents: During the lectures, basic grammar will be taught and various tasks will be practised both in pairs and as group work. Pronunciation exercises, listening comprehension exercises, communication exercises and small number of writing tasks are included.

Level: A1 according to the Common European Framework of References for Language.

Target audience: Students at Åbo Akademi University.

Prerequisites: No previous knowledge required.

Participants min/max: 10/20

Course literature: Gehring-Heinzmann, Suomen mestari 1. Suomen kielen oppikirja aikuisille. 2011. FINN LECTURA.

Format: In class (56h), independent work (74h) Examination participation rights: Active participation (75 %) and successful completion of assignments

Language courses at the Open University

www.abo.fi/student/sprakkomm

No previous knowledge of the subject or previous degree or academic studies are required, but a good command of English is needed. (Exception: language courses on intermediate and advanced level)

Registration

Register for the courses on the web <https://web.abo.fi/fc/anmalningsdb>

or phone Susann Brännkärr, 02-215 4666.

An e-mail of confirmation or rejection is sent out around 7 days before the course starts.

Fees

The courses are free for all exchange students at Åbo Akademi University and for undergraduates at Åbo Akademi University. Others pay a fee of 50 €/term to the Open University. If you register for a course but change your mind about participating in it you must cancel your registration no later than three (3) working days before the course is due to start, or else you will have to pay an **annulment fine of 20 €**. Undergraduate and exchange students at Åbo Akademi University are exempted from the Open University fee, but not from the annulment fine!

Chinese basic course I

4 credits

Offered: Autumn 2014

This course (48 hrs) is arranged by the Open University in co-operation with Hangö sommaruniversitet. The aim of the course is to lay the foundation for pronunciation, basic grammar, sentence patterns and simple Chinese Characters. The contents of course concentrate on the useful and practical topics required for daily life by beginners. Various exercises are included. Assignments will be given for home as follow-up activities.

Course requirements: For credits, 80% attendance and active participation will form the basis for assessment. An exam will be given at the end of the course.

Course material: Course material will be provided by the teacher.

Language of instruction: English

Fees: The Åbo Akademi University Open University fee is € 50.00 for one academic term (Spring or Autumn) 2014-2015. The fee entitles you to participate in any number of courses offered by the Open University of Åbo Akademi University during the academic term. Åbo Akademi University's exchange students are exempted from this fee. The Hangö sommaruniversitet fee is € 20.00 (for everybody).

For more information, please contact Katarina Humina, phone 02-215 4540, e-mail: katarina.humina@abo.fi

Finnish as a Foreign Language level 1

5 credits

902670.0

Offered: Spring 2015

Level A1 according to the Common European Framework of References for Language

Aim and contents: To give students basic knowledge of the Finnish language in order to help to cope with various every-

day situations in Finnish. The students learn to understand and use both spoken and written Finnish. The course also gives a solid start with the grammar. During the lectures, basic grammar will be taught and various tasks will be practised both in pairs and as group work. Pronunciation exercises, listening comprehension exercises, communication exercises and small number of writing tasks are included.

Upon completion of the course, students are expected to be able to do the following:

- read and understand simple texts and other written material dealing with everyday and familiar topics
- read and understand the main content of simple instructions and directions
- understand common, everyday words and simple expressions as well as simple, slow and distinct conversation pertaining to oneself, family and specific areas of interest
- understand simple instructions and directions in everyday situations when spoken slowly and clearly
- produce basic written information about oneself, complete simple forms and questionnaires
- produce short, very simple texts which comprehensively describe a familiar situation, (e.g. write a short letter or message)
- participate in basic conversation about everyday situations and general areas of interest, (e.g. family, housing, studies or equivalent) in which other participants speak slowly and clearly, and are prepared to assist
- use simple vocabulary and phrases, ask and answer basic questions about known topics of conversation and situations, (e.g. greetings, shopping terminology, asking for assistance and help)

Proficiency in terms of how well a student has fulfilled the learning outcomes is determined using a scale of 0-5 (with 5 being the highest mark).

Student work: Contact teaching (56.00h), Other work (74.00h)
Examination qualifications: Active participation (75% attendance)

Examination: Written and oral examination, tests, active attendance (min. 75%)

Course book: Suomen mestari I

Previous knowledge: No previous knowledge required

Swedish adult education centre ("Arbis")

The Swedish adult education centre offers Swedish language courses from beginners' to intermediate level for immigrants and foreigners. On the courses the teaching language is English. Information about the courses will be available in the Course schedules which will be published at www.abo.fi/exchange in mid-August.

Two-year Master's Programmes taught in English

Åbo Akademi University is committed to research and research-based education of the highest quality. The following International Master's Programmes are taught in English:

- Master's Degree Programme in Chemical Engineering
- Master's Degree Programme in Electronic and Mobile Commerce
- Master's Degree Programme in Embedded Computing
- Master's Degree Programme in Biomedical Imaging
- Master's Degree Programme in International Human Rights Law
- Master's Programme in Peace, Mediation and Conflict Research
- Master's Programme in Computer Engineering/Software Engineering
- Master's Programme in Information and Knowledge Management
- Master's Programme in Computer Science

Requirements for admission

There are both academic and language requirements for admission. An applicant must meet both of these in order to be eligible for admission. For information about admission requirements, please see the programme websites.

For general information about the application procedure to the two-year Master's degree programmes taught in English please see www.abo.fi/master.

Master's Degree Programme in Chemical Engineering

Finnish industry, research and education have long traditions and experience in many areas of chemical engineering. This Master's degree programme provides a unique opportunity to learn chemical engineering in a personal atmosphere and to take part in the future development in this area. All eleven laboratories at the Department of Chemical Engineering participate and offer a broad basis for the three specialisation topics:

- Process Chemistry
- Process Systems Engineering
- Natural Materials Technology

These topics are relevant for work in the chemical and process industries as well as in research. Special attention is currently paid to the development of sustainable, environmentally friendly processes and products, including topics such as waste minimization, biofuels, energy efficiency and chemicals from nature.

Upon completion of the two-year programme students receive the degree Master of Science Technology (in Swedish diplomingenjörsexamen). Graduates have a good opportunity to continue with postgraduate studies, as the department is very active in postgraduate education through research. For instance, it coordinates the national Graduate School in Chemical Engineering.

Study Environment

In the degree programme, theoretical studies, through lectures with individual or group assignments, are combined with practical and applied work in adequately equipped laboratories. The studies are done under close personal guidance of teachers and professors. The students study in an international atmosphere together with domestic students as well as international exchange students from many countries.

Trivia

The Process Chemistry Centre (PCC) is a research group at the Department of Chemical Engineering. It studies detailed physico-chemical processes in complex environments of industrial interest to find novel solutions to industrial processes and products. The PCC has a worldwide network of researchers and industrial companies. Since its founding in 1998 it has twice been appointed National Centre of Excellence by the Academy of Finland, most recently for the years 2006-2011.

The Optimization and Systems Engineering (OSE) group has been appointed a Center of Excellence within research at the Åbo Akademi University during 2010-2014. The research focuses on theory, methods and algorithms in systems engineering, optimization and statistics, and their applications in science and engineering. Design, logistic and operational issues in industrial production are engineering applications of main interest. The OSE group is coordinated by the Process Design and Systems Engineering Laboratory.

For more information about the programme, please see:
<http://www.abo.fi/chemeng>
E-mail: chemeng@abo.fi

Master's Degree Programme in Electronic and Mobile Commerce

The Master's Degree Programme in Electronic and Mobile Commerce (EMC Programme) is comprehensive and up-to-date with the latest research knowledge in information systems in general, and electronic and mobile commerce in particular.

The studies combine subject areas in business economics and management science with mobile service design and e-commerce theory and practice. Students will acquire professional skills in planning, developing, building, and implementing electronic and mobile commerce products and services, and solutions for successful business operations. These are skills which are in great demand in multinational companies worldwide. The programme offers an excellent basis for a management and business career in the modern digital economy.

The successful completion of this two-year full-time programme results in the award of a Master of Science degree in Business Administration.

The EMC Programme is offered by the Department of Information Technologies and builds on research at the Institute for Advanced Management Systems Research (IAMSR). IAMSR is a research institute that carries out its research program in interaction with the Finnish industry. The research program on mobile commerce and mobile value services has been running since 1999. It builds currently on cooperation both with a dozen of Finnish companies and a network of research groups at TU Delft, the Netherlands, University of Trento, Italy and City University, Hong Kong. IAMSR is also a member of the eBEREA network of six European and seven Chinese universities focusing on electronic and mobile commerce.

Structure of the Programme

The main module of the programme is 25 cr in Advanced Studies in Information Systems. Within that, the core courses are Electronic Commerce (5 cr) and Mobile Value Services (5 cr). The 25 cr Minor is either in Innovation and Entrepreneurship or selected Basic and Intermediate Level courses in Information Systems. In addition to the mandatory courses in Philosophy, Academic Writing and Swedish, it is possible to take 15 cr free optional studies. The Master's Thesis work (35 cr) is preceded by the Advanced Seminar in Information Systems (7 cr).

Study Environment

The Department of Information Technologies is situated in the Turku Science Park, in the ICT building, where research groups and academic programmes meet, interact and collaborate with ICT companies. The EMC Programme is offered by the Information Systems group within the Department of Information Technologies, in close collaboration with the Institute for Advanced Management Systems Research (IAMSR).

For more information about the programme, please see: <http://www.abo.fi/emc>
E-mail: mobile-commerce@abo.fi

Master's Degree Programme in Embedded Computing

This two year programme is designed to prepare its graduates for the challenging design tasks in the Embedded Systems Industry and leads to a Master of Science in Technology degree (in Swedish diplomingenjör). After graduating students will have both a good understanding of theoretical issues for starting PhD studies, as well as practical competences for a successful career as a designer in industry.

Throughout this programme the students may acquire the following skills:

- Clear understanding of the theoretical backgrounds in real-time processing, computing theory, system architecture, distributed systems, control and signal processing
- A thorough understanding of optimisation, evaluation and verification process in embedded system design
- Knowledge in complex systems design methodologies
- Developing good communication and team-work skills in a multicultural and multilingual environment
- Understanding and applying basic notions of project management

Study Environment

The Master's Degree Programme in Embedded Computing is provided by the Department of Information Technologies at Åbo Akademi University.

This programme is coordinated by the Embedded Systems Laboratory which does research and education on the practice and theory of embedded and automation systems. A central vision of the laboratory is to contribute to the development of solutions for improving the energy-efficiency of systems, both traditional ICT systems (mobile, Green-ICT), as well as automation systems for energy production.

Cooperation

The Master's Degree Programme in Embedded Computing is offered by both Åbo Akademi University and the University of Turku. At Åbo Akademi University, the courses give a more software oriented perspective to embedded computing, and the minor in Innovation and Business Creation is mandatory. Both programmes contain courses given by Åbo Akademi University and the University of Turku. Through this arrangement students can benefit from the facilities and infrastructure of both universities in the same contemporary building in the heart of the Turku Science Park.

Structure of the Programme

The Master's Degree Programme in Embedded has a duration of two academic years and accounts for 120 cr. The studies consists of the following modules: the advanced module I (20 cr), the advanced module II (30 cr), a mandatory minor subject in Innovation and Entrepreneurship, the Master's Thesis (30 cr), a mandatory language course (5 cr), and free optional studies (15 cr).

For more information about the programme, please see: <http://www.abo.fi/ec>
E-mail: embeddedcomputing@abo.fi

Master's Degree Programme in International Human Rights Law

The Institute for Human Rights and the Department of Law at Åbo Akademi University offer a Master's Degree Programme in International Human Rights Law. The programme is designed to prepare its graduates for challenging human rights careers in international organizations, non-governmental organizations and public administration. It will also provide the requisite background for advanced human rights law research. Successful completion of this two-year full-time programme results in the award of a Master of Social Sciences (M. Soc. Sc.) degree. The programme was launched in 2006. The Programme Director is Ms. Catarina Krause (Deputy Director of the Institute for Human Rights).

Structure of the programme

The programme consists of the following modules: (a) compulsory human rights law courses, including a research seminar and a master's thesis in international human rights law; (b) compulsory language studies, and; (c) optional courses, which may include courses offered by Åbo Akademi University, other Finnish universities or international partner universities.

For human rights courses in English offered by the Institute for Human Rights, please go to <https://www.abo.fi/institution/en/studyprogrammes>. The human rights courses are taught by Åbo Akademi University staff as well as invited international experts. The participants of the Master's Degree Programme have a possibility to take part in the intensive international human rights courses offered by the Institute for Human Rights except courses aimed only at doctoral students.

Study environment

The Institute for Human Rights has a lively academic community with a number of researchers and doctoral students as well as activities with partner universities and institutions in Europe and elsewhere.

For more information about the programme please see:

<http://www.abo.fi/hrmasters>

E-mail: hrm-coordinator@abo.fi

Master's Degree Programme in Biomedical Imaging

Biomedical imaging has emerged as one of the most important technology areas in basic bioscience and biomedical research as well as in clinical medicine and translational research. The current technologies enable detailed real-time and non-invasive visualization of molecules, structures and events in cells, tissues, and whole organisms. Application areas include cell and molecular biology, pharmacology, structural biology, nanotechnology and biomaterials research, and patient care-related diagnostics. The Programme aims to train professionals that will have a thorough understanding of diverse imaging technologies along with practical skills in a wide range of imaging methods and applications. The programme is jointly administrated by the Department of Biosciences at Åbo Akademi University and the Medical Faculty at the University of Turku. Successful completion of this two-year full-time programme results in the award of a Master of Science (M.Sc.) degree.

Structure of the Programme

The programme consists of the following modules: (a) major subject studies in biomedical imaging, including a Master's thesis in a suitable application area, seminars and paper presentations; (b) language studies, and; (c) optional studies, which include courses, such as novel and advanced techniques in microscopy, photonics, and in vivo imaging, as well as international lectures and hands-on courses. Practical courses will be given by the two universities in Turku (Åbo Akademi University and the University of Turku). In addition, lecturers and experts from a broad Nordic network in imaging as well as top-ranking international experts from all over the world are invited to participate in ongoing workshops, laboratory courses, seminars and symposia.

Cooperators

The Programme is offered by Åbo Akademi University and the University of Turku. Close cooperators are the national Turku PET Centre, Turku Centre for Biotechnology, Turku Centre for Disease Modeling and Turku University Hospital. The programme has a strong Nordic contribution, since the programme has collaboration sites in the Nordic countries, for example, University of Bergen and Karolinska Institute.

For more information about the programme please see: <http://www.abo.fi/bioimaging>

www.abo.fi/bioimaging

E-mail: bioimaging@abo.fi

Master's Programme in Peace, Mediation and Conflict Research

This two-year Master's Programme provides interdisciplinary perspectives on the complex issues related to peace and conflict in the contemporary world. The programme aims to facilitate the understanding of conflict and its mediation in terms of short and long term consequences. The programme also focuses on conflict resolution, mediation, and peacemaking in local as well as regional and global contexts.

In this Master's Programme, peace and conflict are understood as processes, thus the programme helps to analyze not only the nature and evolution of conflict, but also approaches to conflict that include peace building, mediation, and negotiation. A variety of approaches, procedures, tools, and methods are analyzed in practical contexts within the Master's Programme in Peace, Mediation and Conflict Research.

The successful completion of this two-year full-time study programme results in the award of Master of Social Science degree.

The Structure of the Programme

The programme consists of 120 credits. There are 65 credits in compulsory studies, for example in Mediation and Negotiation, Contemporary Peace and Conflict Studies, Research Methods and Scientific Writing. The compulsory studies also include thesis seminars and the thesis. Students select 55 credits from lists of elective courses on a variety of topics dealing with aggression, conflict, conflict resolution, peacemaking, human security, gender and peacemaking, reconciliation, environment and peace, and so on.

Cooperation with this Joint Programme

The Master's Programme is organized jointly by Åbo Akademi University in Vasa and the University of Tampere. The coordinating unit at Åbo Akademi University is the Developmental Psychology Programme within the Department of Social Sciences, and at the University of Tampere the coordinating units are Tampere Peace Research Institute in cooperation with the School of Management and the School of Social Sciences and Humanities. The programme has a joint website: <http://www.uta.fi/yky/peace/index.html>

Study Environment

The Peace, Mediation and Conflict Research programme is located at the Vasa campus of Åbo Akademi University. Vasa is on Finland's west coast and renowned for its scenic seaside environs and friendliness as a medium-sized city.

For more information about the programme please see:

<http://www.abo.fi/institution/en/socvetpeace>, or

<http://www.uta.fi/yky/peace/index.html>

E-mail: peace@abo.fi

Master's Programme in Computer Engineering/ Software Engineering

Software engineering focuses on the systematic, efficient and effective development of software systems. The study programme in software engineering comprises the use of specification, design, programming, validation and project planning and management methods and tools to develop high-quality, affordable and maintainable software systems. There is an emphasis on the development of internet-based software services and applications. Communication skills and team work are also an important part of the studies.

The study programme is designed to provide the student with the necessary knowledge and skills to join the software industry and participate in demanding software development projects. It also provides the required background for doctoral research in software engineering. Successful completion of this two-year full-time study programme results in the award of a Master of Science (Technology) degree (in Swedish diplomingenjör). Professor Ivan Porres leads the study programme.

Structure of the Programme

The studies consists of the following modules: advanced studies in software engineering (40 credits), master's thesis in software engineering (30 credits), project course (10 credits), studies in information systems and management sciences (20 credits); language course (5 credits), and free optional studies (15 credits).

Study environment

The Master Studies in Software Engineering are offered by the Department of Information Technologies at Åbo Akademi University. The department provides education in Computer Engineering, Computer Science and Information Systems, at the bachelor's level, master's level and postgraduate level. The department is located in the Turku Science Park area, in the ICT-building, where research groups and academic programmes meet, interact and collaborate with ICT companies - many of which are multinational and well known. The study facilities are brand-new and equipped with the latest technology.

For more information about the programme please see:

<http://www.abo.fi/se>

E-mail: softwareengineering@abo.fi

Master's Programme in Computer Science

Computer Science focuses on the study of the scientific foundations for information, computation, and communication, and on the practical techniques for implementing them in computer systems. This is a very broad area of science spanning from the theory of computing, through programming, to cutting-edge development of computing solutions for large distributed systems, including cloud-based systems. Computer Science offers a solid foundation enabling graduates to adapt quickly to new ideas, new technologies, and to multidisciplinary fields. Traditional subfields of Computer Science are algorithmics, computability, software development and verification, programming language theory, computer graphics, databases, compilers, and others. Successful completion of this two-year full-time study programme results in the award of a Master of Science degree (in Swedish filosofie magister) in Computer Science. The program coordinator is Dr. Mats Asp nas and the program director is Professor Ion Petre.

Structure of the Programme

The programme consists of a total of 120 credits structured as follows: (i) Master's thesis: 30 credits; (ii) advanced level courses in Computer Science: 60 credits; (iii) language studies: 5 credits; (iv) optional courses: 25 credits.

The advanced-level courses in Computer Science include 20 credits of mandatory courses and 40 credits which can be selected from a number of modules including topics like Software theory, Software systems, Computational systems biology and High-performance computing.

The optional studies can be chosen freely from Computer science or some other supporting subject, like Software engineering, Information systems, Mathematics, Statistics or Biosciences. Thus, the programme gives the students very good opportunities to choose subjects of his/her own interest and obtain a Master of Science degree with a strong interdisciplinary profile.

Study environment

The Master Studies in Computer Science are offered by the Department of Information Technologies at Åbo Akademi University. The department provides education in Computer Science, Computer Engineering and Information Systems, at the bachelor's, master's and doctoral levels. The department is located in the Turku Science Park area, in the ICT-building, where research groups and academic programmes meet, interact and collaborate with ICT companies - many of which are multinational and well known. The study facilities are brand-new and equipped with the latest technology.

For more information about the programme please see https://www.abo.fi/institution/it_cs
E-mail: computerscience@abo.fi

Master's Programme in Information and Knowledge Management

Efficient management of information and knowledge are critical for the success of enterprises and organisations in the contemporary society. This two-year programme prepares its graduates for challenging careers in the field of information and knowledge management.

The programme combines the latest knowledge from information studies, organisation and management science and marketing in a unique way that gives its graduates a globally unparalleled, comprehensive cross-disciplinary competence that covers the management and use of information and knowledge in internal and external organisatory processes with a comprehensive range of stakeholder groups.

The graduates of the programme acquire competence in the management of information and knowledge in organisations, information architecture and knowledge organisation, social media, competitive intelligence, information and knowledge strategies, management and leadership, marketing management and database design.

The programme is organised by the School of Business and Economics, which has been awarded the status of a Pedagogical Unit of Excellence within the Åbo Akademi University. The different modules include problem based learning, teamwork, workshops, individual and group exercises, seminars, and project work, together with lectures by the faculty, industry representatives and international guests. The use of different working methods prepare the graduates to meet the challenges of future worklife.

A successful completion of this full-time programme results in the award of a Master of Science in Economics and Business Administration degree (Ekonomie magister). Graduates acquire both theoretical knowledge based on state-of-the-art research and practical hands-on experience in managing information and knowledge in organisations.

Study Environment

The information and knowledge management programme is located in the main academic campus of Åbo Akademi University in the heart of the city of Åbo where students have excellent opportunities to meet other students and interact with researchers and faculty members from the School of Business and Economics and other schools and departments.

More information about the programme is available on <http://www.abo.fi/ikm>
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