

Oulu University of Applied Sciences
School of Engineering and Natural Resources
Information for Exchange Students in 2014 - 2015

- 1. Department of Natural Resources**
- 2. Application Procedure**
- 3. Study Possibilities in English & Course Timings**



Last updated: 27.10.2014

1. INFORMATION: DEPARTMENT OF NATURAL RESOURCES

1.1 International (ECTS) Coordinators

See also [contact information](#) for information on distribution of tasks and responsibilities.

International Coordinator (Academic)

Ms [Arja Maunumäki](#)

International Coordinator (Administrative)

Mr [Bastian Fähnrich](#) (Incoming Mobility)

International Coordinator (Administrative)

Ms [Katja Kurasto](#) (Outgoing Mobility)

1.2. Structure and Organisation of the Department of Natural Resources

The Department of Natural Resources is part of the School of Engineering and Natural Resources. It is located on the same campus with the School of Media and Performing Arts. Number of lecturers is about 20. The enrolment of young students is about 40 per year. Altogether we had ca. 300 students during the academic year 2013-2014.

1.3 Location, Special Facilities and Equipment

The Department of Natural Resources is located on the Kotkantie Campus, Kotkantie 1, 90520 Oulu. There are two restaurants, a library, laboratories and several computer classes on campus. See a [map of the Kotkantie Campus](#).

1.4 Credit System

The Finnish credit system has been updated to comply with the European Credit Transfer and Accumulation System (ECTS). Higher education studies are measured in credits (cr). Courses and study modules are credited according to the amount of work they require to attain the required objectives. A student's average study effort of 1,600 hours required for the completion of studies during one academic year corresponds to 60 credits.

1.5 Assessment of Studies

Assessment is usually given in the following grades (ECTS grades in brackets):

5 (A)	excellent
4 (B)	very good
3 (C)	good
2 (D)	satisfactory
1 (E)	sufficient
0 (FX or F)	fail

1.6 Degree Programmes

For more details about degree programmes see ECTS Guide at <http://www.oamk.fi/english/ects/> > Schools / Curricula

- Degree Programme in Agricultural and Rural Industries
- Degree Programme in Horticulture
- Degree Programme in Landscape Planning

1.7 Academic Year and Terms

Autumn 2014 (September or end of August - December 2014)

N.B.! Studies in autumn begin with an orientation day on **28 and 29 August and last until 20 December 2014**. If you choose courses which begin already in August you should be in Oulu latest on 25 August.

Spring 2015 (January - April / May 2015)

N.B.! Studies in spring begin with an orientation day on **7 January 2015**. Contact teaching will be finished **in the end of April** but individual assignments can be completed in May.

1.8 Practical Information

For more details about practical information (living expenses, insurance and health care, travelling and accommodation etc.) see ECTS Guide at <http://www.oamk.fi/english/ects/>

2. APPLICATION PROCEDURE FOR EXCHANGE STUDENTS

If you have any questions regarding the application procedure for exchange students, feel free to contact:
Mr Bastian Fährnich, bastian.fahnrich@oamk.fi, +358 50 31 749 31
(International Coordinator, Administrative, Incoming Students).

(1) Before applying, check whether you meet the following requirements:

- Suitable study background and a minimum of 1 1/2 years' studies at your home university.
- Sufficient English language skills, at least B2 level according to the Common European Framework of Reference for Languages: <http://euopass.cedefop.europa.eu/en/resources/european-language-levels-cefr>

(2) Before applying, contact the international coordinator of your home university to get an approval for your study/practical training abroad period at Oulu UAS.

(3) Before applying, ask your international coordinator of your home university to send a nomination message by e-mail to the contact person mentioned above (bastian.fahnrich@oamk.fi). The message must include your full name, e-mail address and information for which academic year/term you have been nominated.

(4) Send your application during the application period! Applications received beyond the deadlines won't be accepted! The application period for exchange students in the autumn term and academic year is 1 April - 31 May, and for the spring term 15 September - 31 October.

Please note that you must submit your application completely online through Oulu UAS' Exchange Student Application System (ESA), including all required information in the ESA text fields: http://www.oamk.fi/english/exchange_opportunities/student_exchange/exchange_applications/

- Personal & Home Institution Information
- Curriculum Vitae
- Cover Letter
- Learning Agreement
- Application for Accommodation
- Transcript of Records in English and based on ECTS (separately by e-mail, only required in special cases)

(5) Your online application via ESA will be assessed by the international coordinator and academic staff of Oulu UAS' School of Engineering and Natural Resources. If need be, they will contact you by e-mail about further administrative proceedings. For example, it may be necessary to submit also a Transcript of Records etc. by e-mail.

(6) Admission decisions will be sent to applicants usually within two weeks after the application deadline (31 May / 31 October). The international coordinator will send you and other applicants the following admission documents:

- Letter of Acceptance
- Learning Agreement
- Welcome Letter (includes practical information)

N.B.! Accommodation information is given separately by Oulu UAS' International Services, and confirmation of the Otokylä Student Dormitory is sent directly to applicants, usually in July/December.

3. STUDY POSSIBILITIES IN ENGLISH FOR EXCHANGE STUDENTS 2014-2015

If you have any questions regarding studies for exchange students, feel free to contact:

In terms of content: Ms Arja Maunumäki, arja.maunumaki@oamk.fi, +358 50 306 9229
(International Coordinator, Academic, Incoming Students).

In terms of application: Mr Bastian Fähnrich, bastian.fahnrich@oamk.fi, +358 50 31 749 31
(International Coordinator, Administrative, Incoming Students).

3.1 Course Schedules

Autumn Term (End of August - December)

SPRING TERM (January - April / May)

August (25 August)	September	October	November	December	January	February	March	April
	week 36 -	43	week 44 -	51	week 2 -	9	week 11 -	18
	L40003V International operating environment 3				L40003V International operating environment 3			
	L016300 Advanced Professional Skills 3 - 15				L016300 Advanced Professional Skills 3 - 15			
			L11302A Forest Health and Env. Man. 3		L1103A Special crops 3	L1104A Field Vegetables 3		
L10601A Sustainable Production Methods 3			L10602A Organic Production 3		L10603A Environmental and Quality Management Tools 6			
	L11802A Marketing 3				L10801A Support Methods of Planning 3	L10802A Introduction to GIS 3	L10803A Participatory Planning 3	L10804A Environmental Project 3
L10401A Cattle Management 3	L10402A Cattle Feeding 3		L10403A Cattle Breeding 3	L10404A Cattle Man. Technology and Innov. 3	L10701A Environmental microbiology 3			L10503A Business Env., Innov. and Dev. (Equine & Pets) 3
	L0010P English for Profession 3 (Agriculture)				L10201A Introduction to Bioenergy Production 3		L10202A Planning Bioenergy Production Chains 3	
				L12704A Special Areas Project 3	L13003A Landscape Management 3	L13001A Forest and Landscape 3	L13002A Recreational Areas 6	
			L12602A Public Areas Design Project 6 (Students staying only for autumn may conclude the project independently via distance at their home educational institutions)				L12903A Geographic Info in Planning 3	L12904A Landscape Planning Project 3
					L13301A Wellbeing and Green Spaces 3	L13302A Special User Groups in Green Spaces 3		
	Finnish Survival (at different times, registration at Oulu UAS website in August) 3				Finnish Survival (at different times, registration at Oulu UAS website in December) 3			
					T000103 Intercultural Competencies, 3 ECTS cr			

3.2 AUTUMN TERM (End of August - December)

L0010P	English for Profession	3 ECTS credits
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Learning outcomes: Student manages in English language in oral communication situations related to his profession. He is able to seek information related to his work from English sources and he is able to produce written material in English related to his work.

Contents: Meetings and negotiations. Giving advice and guiding texts about student's future profession. Oral presentations about student's future profession.

Requirements: Active participation in oral exercises, written and oral tasks, exam.

Literature: To be agreed on later

Lecturer: Ms Merja O'Rourke

Degree programme: Agricultural and Rural Industries

L40003V	International operating environment	3 ECTS credit units
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Learning outcomes: Student forms a picture of the operating environment of his/her own field in the country where he/she is staying a minimum of three months as an exchange student or trainee. He/she is capable of comparing the conditions in home country and target country in relation to the importance of the field, strengths and development possibilities. He/she recognizes the areas where best practice could be benefitted from. He/she familiarizes him/herself with local actors.

Contents: Minimum of three months studies or practical training abroad. Information search from local sources. Differences in operating environments. Volume, importance, biggest actors, training and research of field, strengths, challenges and development potential. Best practices.

Requirements: Action plan before exchange period abroad including aims, resources, working methods and expected results. Realizing the plan. Report after the exchange period including comparison or operating environments, description of activities, suggestions for transfer of best practice and evaluation.

Literature: To be agreed on later

Lecturer: Ms Arja Maunumäki

Degree programme: All programmes

L10601A	Sustainable Production Methods	3 ECTS credit units
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Learning outcomes: The student is able to list the indicators of sustainable development in bio economics. He/she is able to estimate the production methods from the perspective of environmentally friendly practices. He/she is able to use the evaluation methods of sustainable production. He/she is able to plan agricultural practices according to environmentally friendly ways.

Contents: The evaluation methods of sustainable production. Environmental responsibility in crop production and in livestock production. The methods of environmental protection in agriculture.

Requirements Exam and assignments

Literature: To be agreed on later

Lecturer: Ms Jaana Väisänen

Degree programme: Agricultural and Rural Industries

L10602A	Organic Production	3 ECTS credits
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Learning outcomes: The student can apply the principles of organic agriculture, and define the commitments of organic legislation in plant and animal production. He/she is able to arrange a proper crop rotation considering the nutrient management and utilize non-chemical plant protection methods.

Contents: The values, principles, and development history of organic agriculture. Principles of organic production in animal feeding and care. Nutrient management and weed control methods in organic plant production systems. Legislation, organizations of organic agriculture.

Requirements: exercise work, exam

Literature: To be agreed on later

Lecturer: Ms Jaana Väisänen

Degree programme: Agricultural and Rural Industries

L50002V	Advanced Professional Skills (Individual Project)	3 – 15 ECTS credit units
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Learning outcomes: The student is able to act responsibly and independently as a professional of his/her field. The student forms networks with the operators of working life.

Contents: Project for working life with alternating content or attendance at a professional event of the field

Requirements: Project for working life

Literature: To be agreed on later

Lecturer: Mr Matti Järvi

Degree programme: Agricultural and Rural Industries

L11302A	Forest Health and Environmental Management	3 ECTS credit units
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Learning outcomes: The student is able to implement requirements of forest certification, landscape and nature management in managing forest holdings. He/she is able to reduce the environmental load caused by forest measures in planning and implementation. The student is able to identify the most common causes for forest damage and act to prevent them.

Contents: Forest certification, landscape management, nature management and environmental subsidies, environmental impacts of measures, forest damage and its prevention.

Requirements: Exam and exercises

Literature: To be agreed on later

Lecturer: Ms Anu Hilli

Degree programme: Agricultural and Rural Industries

L12704A	Special Areas Project	3 ECTS credit units
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Learning outcomes: The student is able to prepare working plan documents and cost estimates of a given site based on a general lay-out.

Contents: Preparing a working plan from a general layout. Structures, materials and measurements of the site. Preparation of a work specification and cost estimate.

Requirements: Project

Literature: To be agreed on later

Lecturer: Ms Pirjo Siipola

Degree programme: Landscape planning

L10401A	Cattle Management	3 ECTS credits
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Learning outcomes: The student can carry out different kinds of cattle management tasks and organize and lead herd management activities.

Contents: Dairy and beef herd management. Buildings and technology. Recording, monitoring and management systems. Production related diseases and health care.

Requirements: assignments, exam

Literature: To be agreed on later

Lecturer: Mr Matti Järvi

Degree programme: Agricultural and Rural Industries

L10402A	Cattle Feeding	3 ECTS credits
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Learning outcomes: The student is able to make a plan for farm level feed production and feeding and implement them in practice.

Contents: Feeding strategies and practices. Forages, concentrates and commercial feeds. Planning feed production and feeding. Feeding research.

Requirements: assignments, exam

Literature: To be agreed on later

Lecturer: Mr Matti Järvi

Degree programme: Agricultural and Rural Industries

L10403A	Cattle Breeding	3 ECTS credits
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Learning outcomes: The student is able to apply his/her knowledge of genetics in animal breeding. The student is able to outline present breeding goals and breeding programme and analyze the effects of alternative procedures. The student is able to select animals and lay out a cattle breeding plan.

Contents: Applied genetics. Principles of selection. Breeding values and breeding programs. Feeding plan.

Requirements: assignments, exam, exercises

Literature: To be agreed on later

Lecturer: Mr Matti Järvi

Degree programme: Agricultural and Rural Industries

L10404A	Cattle Management Technology and Innovations	3 ECTS credits
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Learning outcomes: The student is able to evaluate the functional design of a cattle barn and make a draft of a building with appropriate technology. The student is able to create development proposals and make an innovation plan.

Contents: Functional housing design. Production technology and innovations.

Requirements: assignments

Literature: To be agreed on later

Lecturer: Mr Matti Järvi

Degree programme: Agricultural and Rural Industries

L12602A	Public Areas Design Project	6 ECTS credits
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Learning outcomes: The student is familiar with the principles and practices of designing public areas. He/she masters the planning process. The student is able to prepare realizable landscape designs and green space plans for public areas.

Contents: Designing public areas: parks, playgrounds, squares and surroundings of public buildings. Provisions and regulations. The survey and analysis of the planning site. Design process. Cityscape and aesthetics. Sustainability. Accessibility. Use of plants. Community utilities.

Requirements: Project, assignments

Literature: To be agreed on later

Lecturer: Ms Merja O'Rourke

Degree programme: Landscape planning

L11802A	Marketing	3 ECTS credits
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Learning outcomes: The student is able to use marketing tools and competitive marketing strategies. He/she is able to plan and manage marketing processes to fulfill customer's needs.

Contents: Planning marketing. Competition. Customer service. Social media in marketing.

Requirements: Assignment, portfolio or exam

Literature: To be agreed on later

Lecturer: Mr Pekka Kokkonen

Degree programme: All programmes

Y00022E	Finnish Survival Course	3 ECTS credit units
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Learning outcomes: The students know the Finnish culture and the basics of Finnish language. The students understand simple everyday spoken and written phrases (signs and announcements) and are able to produce simple everyday phrases (how to greet, thank, order, do shopping etc.).

Contents: Basics of Finnish language and culture. Practising simple everyday situations and phrases.

Requirements: Interest in Finnish language and culture. Registration online in December at Oulu UAS' website in the Announcements section.

Literature: To be agreed on later

Lecturer: To be named

3.3 SPRING TERM (January - April / May)

L10201A	Introduction to Bioenergy Production	3 ECTS credits
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Learning outcomes: Student is able to describe the opportunities and meaning of bioenergy for national and global energy systems. He/she is able to name and classify raw materials used for bioenergy and biofuels. He/she is able to remember their properties and quality requirements. The student is able to explain the environmental impact of various forms of bioenergy and describe the legislation of the sector. He/she is able to present methods of bioenergy production.

Contents: Renewable energy sources in Finland and globally. Reasons for change over to using renewable energy with emphasis on bioenergy. National and global bioenergy potential. Raw materials for bioenergy and biofuels. Environmental impact and legislation of bioenergy production. Production methods of bioenergy.

Requirements: Assignment and/or exam

Literature: To be agreed on later

Lecturer: Mr Mikko Aalto

Degree programme Agricultural and Rural Industries

L10202A	Planning Bioenergy Production Chains	3 ECTS credits
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Learning outcomes: The student is able to plan supply chains from wood and biomass-based biofuels and biogas.

Contents: Production of wood- and biomass-based biofuels and biogas. Raw material procurement. Sizing of a small scale bioenergy production unit.

Requirements: Assignment and/or exam

Literature: To be agreed on later

Lecturer: Mr Mikko Aalto

Degree programme Agricultural and Rural Industries

L10603A	Environmental and Quality Management Tools	6 ECTS credits
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Learning outcomes: The student is able to use the tools of environmental and quality management. He/she is able to analyze critically issues affecting the quality of activities. He/she is able to prepare an environmental review for an organization, plan an environmental program and its audit. He/she is able to describe, evaluate, analyze and measure processes. The student is able to plan production and services considering quality, health, safety and environmental aspects. He/she is able to use the methods of environmental communication.

Contents: The principles and tools of environmental and quality management. Environmental management systems and standards. Quality management systems and criteria of excellence. Environmental legislation of enterprises. Process thinking. Risk analysis and management. Combining quality, environmental and safety management systems in enterprises.

Requirements: Exam, assignments and excursions

Literature: To be agreed on later

Lecturer: Mr Pekka Kokkonen

Degree programme: Agricultural and Rural Industries

L40003V	International operating environment	3 ECTS credit units
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Objectives: Student forms a picture of the operating environment of his/her own field in the country where he/she is staying a minimum of three months as an exchange student or trainee. He/she is capable of comparing the conditions in home country and target country in relation to the importance of the field, strengths and development possibilities. He/she recognises the areas where best practice could be benefitted from. He /she familiarises him/herself with local actors.

Contents: Minimum of three months studies or practical training abroad. Information search from local sources. Differences in operating environments. Volume, importance, biggest actors, training and research of field, strengths, challenges and development potential. Best practices.

Requirements: Action plan before exchange period abroad including aims, resources, working methods and expected results. Realising the plan. Report after the exchange period including comparison or operating environments, description of activities, suggestions for transfer of best practice and evaluation.

Literature: To be agreed on later

Staff: Ms Arja Maunumäki

Degree programme: All programmes

L11104A	Field Vegetables	3 ECTS credits
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Learning outcomes: Student is able to prepare a production plan from seedbed preparation to storage and postharvest handling of vegetables. He/she is able to identify which factors in the production cycle affect the quality of vegetables. The student is able to evaluate the suitability of various production methods in different conditions.

Contents: Vegetable production requirements for soil quality and farm management, production methods and technical solutions of common field vegetables. Weed, pest and disease control. Quality criteria of vegetables for processing and trade.

Requirements: exercise work, exam

Literature: To be agreed on later

Lecturer: Ms Jaana Väisänen

Degree programme: Agricultural and Rural Industries

L10503A	Business Environment, Innovations and Development (Equine and Pets)	3 ECTS credits
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Learning outcomes: The student familiarizes him/herself with the innovations in, for example, landscape and green space planning, landscape construction or management, according to his/her interest. These innovations are, for example, new planning methods, technologies, environmental products or materials in environmental construction. Upon completion of the study unit he/she is able to act successfully in the innovation network of his/her interest branch.

Contents: Assessing present state of innovation activity in chosen field, research and development. Emergence and spreading of innovations and innovation networks in environmental planning, construction and environmental management.

Requirements: Participation in classes, exercises, learning portfolio.

Literature: To be agreed on later

Lecturer: Mr Matti Järvi

Degree programme All programmes

L10801A	Support Methods of Planning	3 ECTS credits
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Learning outcomes: The student knows decision-making methods and databases in environmental planning and is able to apply them in problem solving.

Contents: Decision-making process. Risk and uncertainty in decision-making, time series and their analysis, optimization, environmental model, decision tree.

Requirements: Assignments and exams

Literature: To be agreed on later

Lecturer: Ms Outi Virkkula

Degree programme: All programmes

L10803A	Participatory Planning	3 ECTS credits
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Learning outcomes: The student is able to define the need for participatory approach in a planning project. He/she is able to prepare and implement a participatory and evaluation plan. The student is able to choose proper participatory methods and utilize their results in a project.

Contents: Participatory approach as part of decision-making, levels of participation and objectives, methods in participation and their application. Planning, utilization and evaluation of participatory approach.

Requirements: Exercises and exam

Literature: To be agreed on later

Lecturer: Ms Outi Virkkula

Degree programme All programmes

L10804A	Environmental Project	3 ECTS credits
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Learning outcomes: The student is able to combine and use his/her know-how of environmental management in project work. He/she is able to operate in a project of environmental sector with multidisciplinary specialists. The student is able to make appropriate conclusions and proposals as well as prepare documents required.

Contents: Planning, implementation and reporting of an environmental project.

Requirements: Report and learning diary.

Literature: To be agreed on later

Lecturer: Ms Kaija Karhunen

Degree programme All programmes

L10802A	Introduction to GIS	3 ECTS credits
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Learning outcomes: The student is able to define the basic concepts of GIS. He/she is able to identify the coordinate and sheet line systems used in Finland and explain the importance of the coordinate systems in data management. He/she is able to visualize spatial data and produce finished maps.

Contents: Introduction to GIS. The coordinate systems in Finland and their importance in data management. Sheet line systems in Finland. Spatial data portals in the Internet. Creation and printing of maps. Diverse spatial data and their applicability in planning.

Requirements: exam and assignment

Literature: To be agreed on later

Lecturer: Mr Toni Sankari

Degree programme All programmes

L13301A	Wellbeing and Green Spaces	3 ECTS credits
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Learning outcomes: The student is able to identify quality factors affecting human wellbeing as well as the meaning of personal experiences in how the environment is experienced. He/she recognizes the importance of green spaces as a part of wellbeing.

Contents: Basics of environmental psychology. Importance of green spaces to human wellbeing.

Requirements: Essay

Literature: To be agreed on later

Lecturer: Ms Pirjo Siipola

Degree programme Landscape planning

L13302A	Special User Groups in Green Spaces	3 ECTS credits
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Learning outcomes: The student is able to take special needs of people into consideration in his/her professional work. The student is able to utilize principles of stimulative and accessible planning in his/her work.

Contents: Concept of accessible and stimulative environment. Measurement instructions for planning accessible outdoor areas. Needs of various age and special groups in green spaces.

Requirements: Assignment

Literature: To be agreed on later

Lecturer: Ms Pirjo Siipola

Degree programme Landscape planning

L11103A	Special Crops	3 ECTS credit units
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Learning outcomes: The student is able to identify the opportunities of special crops and cultivation characteristics in Northern Finland. He/she knows how cultivation techniques affect harvest yield and quality. The student is able to plan special crops production considering biological, economical and technical issues.

Contents: Turnip rape, caraway, reed canary grass, buckwheat and other special crops. Varieties, plant protection, tillage, fertilization, machines, harvesting, harvest treatment and storage.

Requirements: exam and exercise work

Literature: To be agreed on later

Lecturer: Mr Antti Hirvonen

Degree programme: Agricultural and Rural Industries

L10701A	Environmental microbiology	3 ECTS credit units
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Learning outcomes: The student is able to list and classify the most common species of microbes in soil, water and plants. He/she is able to choose appropriate sampling methods and take samples. He/she is able to use methods for microbiological analysis and interpret their results.

Contents: Microbes and their classification. Growth factors of microbes. Microbial ecology. Disadvantages of microbes. Utilization of microbes. Microbes as bioindicators.

Requirements: Exam, laboratory work, report

Literature: To be agreed on later

Lecturer: Ms Kaija Karhunen

Degree programme: Agricultural and Rural Industries

L13003A	Landscape management	3 ECTS credit units
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Learning outcomes: The student knows the contents of landscape management plans and is able to recognize sites that require treatment. He/she is able to plan necessary landscape management tasks and present them.

Contents: Principles in landscape management, practical implementation of management and funding. Landscape management plans.

Requirements: Exercise work.

Literature: To be agreed on later

Lecturer: Ms Pirjo Siipola

Degree programme: Agricultural and Rural Industries

L13001A	Forest and landscape	3 ECTS credit units
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Learning outcomes: The student is able to make basic classifications and measurements in forests. He/she is able to plan methods used in forest regeneration and growing considering ecological, conservational and landscape values. The student is able to communicate with specialists about forest management issues.

Contents: Meaning of forest in landscape. Forestry classifications. Classification of urban forests and landscape work permit. Silviculture in commercial and urban forests.

Requirements: Assignment

Literature: To be agreed on later

Lecturer: Ms Anu Hilli

Degree programme: Agricultural and Rural Industries

L13002A	Recreational areas	6 ECTS credit units
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Learning outcomes: The student is able to plan recreational areas and routes for various user groups considering nature, environment and legislation. The student is able to interpret the results of visitor counts and surveys in planning as well as analyze recreational values and quality of areas. The student is able to work in various types of projects and tasks concerning landscape management and recreational use.

Contents: Recreational areas. Planning recreational areas and routes. Structures in recreational areas and their design. Quality of recreational areas and participatory planning.

Requirements: Examination and practical assignment.

Literature: To be agreed on later

Lecturer: Ms Anu Hilli

Degree programme: Agricultural and Rural Industries

L12903A	Geographical information in planning	3 ECTS credit units
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Learning outcomes: The student is able to visualize spatial data and produce finished maps. He/she is able to produce, edit and manage spatial data in accordance with the requirements for planning. The student is able to explain the operational principles of the Global Positioning System. He/she is able to work with a GPS device in the field and recognize the potential of positioning devices for example in inventory work.

Contents: Creation and printing of maps. Production and editing of spatial data. Spatial data queries. Operational principles of GPS and the other positioning methods. Field work with GPS devices and factors causing inaccuracy in positioning. Data transfer between GPS devices and a GIS software.

Requirements: Exam and assignment

Literature: To be agreed on later

Lecturer: Mr Toni Sankari

Degree programme: Agricultural and Rural Industries

L12904A	Landscape planning project	3 ECTS credit units
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Learning outcomes: The student is able to prepare a development plan for a site considering natural and cultural values and utilizing structural analysis of landscape and geographical data programs.

Contents: Preparation of landscape plan on the basis of a landscape analysis. Utilizing source material and preparing planning documents.

Requirements: Project

Literature: To be agreed on later

Lecturer: Ms Pirjo Siipola

Degree programme: Agricultural and Rural Industries

L50002V	Advanced Professional Skills (Individual Project)	3 – 15 ECTS credit units
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Learning outcomes: The student is able to act responsibly and independently as a professional of his/her field. The student forms networks with the operators of working life.

Contents: Project for working life with alternating content or attendance at a professional event of the field

Requirements: Project for working life

Literature: To be agreed on later

Lecturer: Mr Matti Järvi

Degree programme: Agricultural and Rural Industries

Y00022E	Finnish Survival Course	3 ECTS credit units
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Learning outcomes: The students know the Finnish culture and the basics of Finnish language. The students understand simple everyday spoken and written phrases (signs and announcements) and are able to produce simple everyday phrases (how to greet, thank, order, do shopping etc.).

Contents: Basics of Finnish language and culture. Practising simple everyday situations and phrases.

Requirements: Interest in Finnish language and culture. Registration online in December at Oulu UAS' website in the Announcements section.

Literature: To be agreed on later

Lecturer: To be named

T000103	Intercultural Competencies	3 ECTS credit units
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Learning outcomes: Students have a deeper understanding of culture and cultural differences and are more competent in handling cultural adaptation as well as work and communication in an intercultural environment.

Contents: Definition of culture, cultural adaptation, intercultural communication and teamwork skills. Intercultural competence in engineering/natural resources. From cultural awareness to understanding and appreciation.

Requirements: Interest in intercultural communication.

Literature: To be agreed on later

Lecturer: Ms Katja Kurasto