

LAUREA UNIVERSITY OF APPLIED SCIENCES

Degree Programme in Business Information Technology, Kerava, NTE214SN

INTRODUCTION TO LAUREA

Laurea's Mission

The strategic intent of Laurea University of Applied Sciences is to be "an international developer of well-being and competitiveness of the Helsinki Metropolitan area in 2020.

Laurea is a student-centred, international, inspiring and innovative university of applied sciences whose mission is to conduct education, research, development and innovation activities in international value networks following the operating model of Learning by Developing (LbD).

The students will encounter authentic workplace actors and their competence will be challenged during their studies. A student graduating from Laurea will be able to act in new situations, anticipate future trends, develop new operating models and examine the world with open eyes. Laurea's mission is to be an internationally networked university of applied sciences with an operating method that creates links between learning and the working life. This way, new competence will be produced and service innovations generated.

Competence Development

At Laurea our focus is on the student, emphasising the student's freedom and responsibility. The students are offered an opportunity to develop their competence as required by their professional goals. Freedom means that the learning outcomes may be achieved through different modes of studying. Responsibility means an active approach to studying, responsibility for your own choices and a constructive and motivated attitude towards doing things together. Laurea's staff is responsible for supporting and guiding the student's professional growth.

Internationality at Laurea means numerous opportunities for being active in various multicultural settings, developing your language skills, going on student exchanges and taking part in international research and development (R&D) projects.

Focus areas refer to areas of strong expertise on which the education offered by Laurea and Laurea's R&D activities are based. Laurea's focus areas are service business, expertise in nursing and coping at home as well as security, safety and social responsibility. Student entrepreneurship is a cross-cutting focus area, which is visible in Laurea's activities not only as an entrepreneurial attitude and cooperation with companies but also as concrete new businesses that the students may set up even before completing their studies.

Laurea produces experts for the future who can develop their own work, are professionally committed and have capabilities for serving in expert tasks in their own fields.

The education aims for an extensive and strong professional competence. Workplace driven projects also develop management competence, communication skills, creativity and ethical competence. The graduates will have capabilities for following and promoting the development of their professional fields and for continuous improvement of their personal professional competence. The education imparts the students adequate communication and linguistic skills for tasks in their fields as well as for international activities and cooperation.

Campuses

All of Laurea's campuses have their unique profiles, and they offer different learning environments:

The Hyvinkää campus specialises in the renewal of welfare services. The campus has a multi professional approach to developing financial, legal, social and health-related competence. You can study for a Bachelor's degree in Health Care (nurse), Social Services or Business Administration. Your studies will offer you opportunities to develop services in workplace projects together with working life specialists. The campus makes use of such development environments as a simulation hospital, simulation classrooms and a project learning environment in the provision of

education.

In Kerava you can choose a degree programme in Business Management or Business Information Technology. You can specialise in the management of customer-oriented service business, study tourism management or develop specialist competence in business information technology. The Kerava campus plays a pioneering role in both blended learning and virtual education. Learning through projects and acting in an international network of partners will be a standard part of your studies in Kerava.

Leppävaara SID focuses on service renewal. SID stands for Service Innovation and Design, which means user-centered innovation, development and design of services. Laurea SID provides a setting for active learning and turns out graduates who are innovative, internationally oriented and development-focused specialists of service business. In Leppävaara, you can study for a degree in Hospitality Management, Business Management, Business Information Technology or Security Management.

The Lohja campus is profiled as a developer of wellbeing and services. In the Bachelor of Health Care degree programme, nursing of adults and mental health work are emphasised. In the degree programme in business administration, you can focus on marketing, eBusiness, management and wellbeing business. Authentic workplace projects are carried out, and private and public sector services are developed, in such learning environments as Terveystori ('Health Market') and Yrityslabra ('Business Lab').

On the Otaniemi campus, students generate welfare and business competence together with working life actors. The campus is a multicultural and multidisciplinary meeting point where you can build yourself a professional network and study for a Bachelor's degree in Health Care (physiotherapist, nurse, public health nurse), Social Services, or Business Administration. The purpose of this network is to support the development of your competence and to generate new services, products and business. You may also launch your own business as part of your studies.

On the Porvoo campus, students of nursing take part in authentic workplace projects. You will build up strong basic capabilities in wellbeing entrepreneurship and work together with companies of this field during your studies. You will be offered opportunities for virtual study in the form of inspiring, up-to-date and versatile online implementations.

The aim of the Tikkurila campus is to promote future welfare. Its goal is to develop services in a participatory process with customers and to boost welfare. In Tikkurila, you can study for a Bachelor's degree in Health Care (nurse, public health nurse), Social Services (social welfare sector or correctional services), Business Administration or Beauty Care. As a student you will have opportunities for building up your competence in various development projects and learning environments together with working life specialists.

LEARNING BY DEVELOPING (LbD)

Laurea's inspiring and innovative learning environments are based on the model of Learning by Developing. The idea of Learning by Developing is built around authentic encounters with the working life. The ensuing cooperation is based on trust and creativity.

The students learn to identify targets for workplace and competence development, to create new solutions, products and operating models and to develop their own action in observance of changing workplace requirements. The typical characteristics of LbD include authenticity, partnership, experiential nature, creativity and a research-oriented approach.

Learning by Developing combines learning that produces competence with creativity through various research and development projects. Learning builds on new opportunities that open up as the project progresses. The required competence is accumulated through practical activities in various workshops and labs.

DEGREE STRUCTURE IN EDUCATION LEADING TO A UNIVERSITY OF APPLIED SCIENCES DEGREE

Scope and Extent of the Degree

The scope of a Bachelor's degree in Business Administration, Hospitality Management, Beauty Care, and Health Care (physiotherapist, nurse) is 210 credits, and it takes on average 3.5 years to complete. The scope of a Bachelor's degree programme in Health Care (public health nurse) is 240 credits, and it takes on average 4 years to

complete.

In line with the international ECTS standard, one credit corresponds with 26.7 hours of work for an average student.

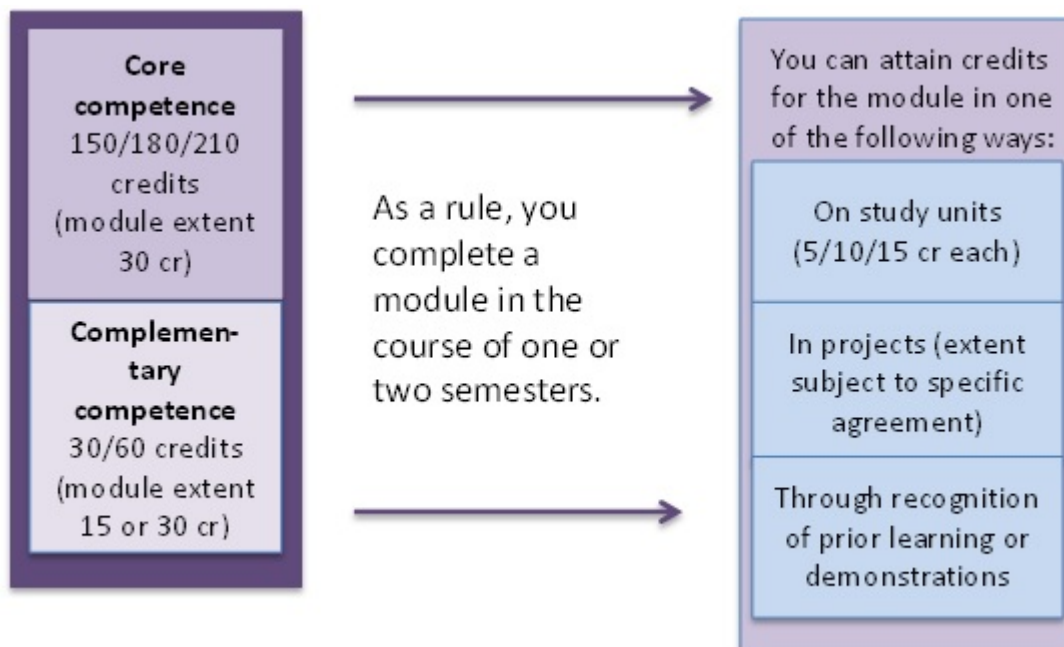
Degree Structure

The degree studies at Laurea consists of core competence and complementary competence modules. The modules comprise competence areas that are part of the degree. Core competence modules impart competence that is part of the degree's compulsory requirements. Complementary modules make it possible to deepen or extend your knowledge.

Learning is made relevant to workplace development and the student's personal goals. The learning outcomes specified for the modules build on future workplace needs and Laurea's focus areas.

In practice, credits are attained when the student complete study units that are part of the module or engage in projects in which the corresponding competence area is develop (see picture 1). Credits can also be gained through recognition of prior learning or demonstrations.

The modules have been designed so that they can mainly be completed in the course of one or two semesters. Study units can be implemented either in Finnish or in English. The language of the implementation is decided for each semester and is visible in the study unit offer.



Picture 1. Structure of the studies.

Core Competence and Complementary Competence Modules

Core competence modules lay the foundation for the competence required for a degree and are compulsory. The scope of the core competence varies depending on the degree:

- 150 credits for a Bachelor of Business Administration, a Bachelor of Hospitality Management, a Bachelor of Social Services, a Bachelor of Health Care (physiotherapist) and a Bachelor of Beauty Care degree
- 180 credits for a Bachelor of Health Care degree (nurse)
- 210 credits for a Bachelor of Health Care degree (public health nurse)

The scope of **core competence modules** is 30 credits. The modules contain the following types of studies: basic studies, professional studies, practical studies and a Bachelor's thesis.

The remaining part of the degree consists of **complementary competence modules**. Depending on the degree, the scope of the complementary competence thus is 30 or 60 credits. The scope of a module is either 15 or 30 credits. The modules can be freely selected. Complementary competence modules support individual study paths and competence. You can include in your degree complementary competence modules that are compatible with your professional goals. The compatibility of the elective studies with your degree will be subject to prior agreement with your teacher tutor.

Complementary modules include the following types of studies: professional studies, practical studies and elective studies.

Flexible Possibilities for Completing Attainments and Specialising

At Laurea, there are flexible possibilities of building up the competence specified in the modules' learning outcomes. For example, the student can

- select core competence studies offered on Laurea's different campuses
- select complementary competence modules that support your professional goals in Laurea's various units
- select English study units from Laurea's offer of English education, even if you are studying in Finnish education,
- select Finnish study units from Laurea's offer of Finnish education, even if you are studying in an English education.
- select study units taught in Finnish from Laurea's offer of Finnish education
- include in your degree studies selected from the offer of the FUAS Federation, or HAMK University of Applied Sciences and Lahti university of Applied Sciences, without paying fees
- select online studies that give you more flexibility in your study schedules, and
- develop your competence by taking part in projects.

The study unit implementation plans specify the objectives, content and implementation form of the studies.

The development of a student's individual competence is also supported by campus modules, the contents of which emphasise the special competence areas of the campuses. In addition, you can deepen or extend your competence by your selections of complementary competence modules, placements and the theme of your thesis, and by participating in various projects. Career guidance will be provided to support a student on his or her study path.

ASSESSMENT OF LEARNING AND COMPETENCE

In the curriculum, the learning outcomes are described as the learner's actions, so that the development of competence can be assessed with reference to the set goals. Competence is identified as knowledge, skills and values related competence as well as experiential competence that includes the competence of an individual and a community. The competence descriptions in the curriculum draw on Bloom's taxonomy, where the development of competence is described at six different levels: knowledge, comprehension, application, analysis, synthesis and evaluation/creativity.

Following Laurea's LbD model, it is expected that the learner's competence will develop from the level of application to the level of creativity in the course of the education. Laurea's description of shared general criteria for workplace competence is based on the National Quality Framework. General workplace competence develops as the students complete modules and study units and participate in projects.

Table 1. Shared criteria for generic working life competence at Laurea

Description of competence	Learning outcome	Examples
REFLECTION COMPETENCE <i>learning skills (EQF)</i>	• is able to solve problems associated with his/her role, operating methods and competence in a goal-oriented manner to reach a target	

Assessment and development of the learner's personal competence and that of others in order to achieve the learning outcomes		- changes his/her operating methods and role, and develops his/her competence as the development process progresses in order to reach the objectives and the goal set for the project. - brings up the views put forward by experts that he/she appreciates as the project progresses
	is able to analyse the implemented operating methods and the actors' competence and, based on this analysis, is able to draw conclusions together with other actors in order to achieve a shared goal	in a goal-oriented manner, compares different perspectives together with other project actors
	is able to compare and develop the operating methods of various actors, the set objectives and goal and the entire process, and to create a new operating model	models a development project as a whole from the perspective of impact

ETHICAL COMPETENCE	- is able to follow the principles of equality and fairness - is able to apply the underpinning values and principles of vocational ethics typical of his/her field to his/her actions - is able to apply the principles of sustainable development (environmental, social and financial responsibility) - acts as a responsible global citizen	- follows the agreed operating methods - is considerate to others, gives space to other people's ideas and listens - complies with the rules (including schedules), is committed to work, is careful, reliable and fair, respects the work of others, shows discretion and behaves appropriately in each situation - understands that local actions may also have international impacts and vice versa
	- accepts responsibility for his/her own actions - accepts responsibility for the actions of the group	- recognizes conflicts associated with choices - compares and takes into consideration different viewpoints, is able to let go of selfish needs in order to achieve a common good - shows appreciation for the work and outputs of others, for example by citing the original sources
	draws on his/her competence to have an impact in society (LbD regional development)	designs/develops customer-oriented and sustainable solutions including a financial, social and environmental aspect

COMMUNICATION COMPETENCE		observes the communication requirements and capacities of the project
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(IN WORK COMMUNITY) <i>The student is able to act appropriately in various work-related communication and interactive situations: the student uses diverse communication channels in various situations, exchanges messages and maintains interaction with others.</i>	• is able to communicate appropriately in interactive situations of the work community and communicate in inter-cultural situations	• by his/her personal action, promotes a constructive atmosphere (appropriate, constructive criticism) • values, listens to and respects different communicators and cultures and linguistic diversity • applies his/her communication competence to different people • communicates in a foreign language • uses ICT in his/her tasks
	• is able to communicate responsibly as part of a multi-disciplinary work community / network • is able to organise communications in a work community • is able to evaluate communication competence needed in multicultural cooperation • is able to evaluate the impacts and possibilities of internationalisation development	• communicates to promote well-being in the community • acts as an active and goal-oriented partner in cooperation and networks globally • shares information and takes initiative in disseminating information on the project's progress using various communication channels • finds solutions to communication challenges • constructs and organises network partnerships in cooperation with project actors
	• is able to renew communication modes • is able to direct communications • is able to develop working life connections and networks • is able to have an impact in society by communicating about project outcomes	• has the courage to challenge him/herself and others to act • tolerates uncertainty, incompleteness and the possibility of failing in communication situations • acts professionally, interprets and controls emotions in critical interactive situations • builds and develops online partnerships independently • uses renewing modes of communication

INNOVATION COMPETENCE	• is able to identify elements needing change in working life / a project • is able to use appropriate project and R&D methods • is able to apply a development-oriented work approach in an RDI project	• obtains and processes knowledge in his/her field in relation to the RDI project • brings up practicable development ideas emerging from the project
	• is able to organise an RDI project • is able to analyse and interpret an innovation process applying existing international knowledge	• documents and reports: describes knowledge or operating methods that renew working life in line with the project targets • brings up international standards and practices relevant to the field and follows them

		has the courage for constructive questioning
	is able to create new working methods by using creative problem-solving and finds customer-oriented, sustainable and cost-effective solutions	- suggests and implements solutions bravely and creatively, justifies his/her point of view - has visions of future (foresight, ability to also see the past) - is creative

MANAGEMENT COMPETENCE Management comprises goal-oriented, interactive social activity. Management guides the way people act. The aim of management is that a group of people will work better and more efficiently than without management	is able to draw on the basics of management and entrepreneurial operation as part of project work	- recognizes his/her role in order to manage his/her own actions in the project - identifies the goals of the project and sets goals for him/herself
	- is able to lead a development project as a Project Manager - is able to promote a communal spirit among those participating in a development project by personal example	- draws up a project plan (legal and financial aspects) - communicates about decisions and project changes, solves communication and interaction problems - plans and implements a budget - organises project activities and allocates responsibilities and tasks to actors - supports the actors' development as Project Manager - makes decisions in unexpected situations - identifies risks and takes steps to find a solution - monitors and evaluates the project in comparison to the plan
	- is capable of proactive management - is able to generalise management competence produced in a development project in working life development	- has visions of future - renews management culture

Study units are graded on a scale of 0 to 5, as follows:

5 (Excellent),
 4 (Good),
 3 (Good),
 2 (Satisfactory),
 1 (Satisfactory) and
 0 (Fail).

Some study units, study unit elements or parts can also be graded simply as Pass/Fail (H/0).

The students will be informed of the criteria for assessing competence at the beginning of each study unit/project. In

the planning of the assessment, shared assessment criteria applicable to initial stage and graduation stage students are utilised, with shared descriptions for levels 1, 3 and 5.

Table 2. Shared assessment criteria for initial stage and graduation stage students

BACHELOR'S DEGREE	INITIAL STAGE STUDENTS	GRADUATION STAGE STUDENTS
EXCELLENT grade 5 Students are able to:	• Apply professional concepts expertly. • Comply with occupational safety instructions responsibly and independently. • Justify activities using research knowledge. • Work independently and take initiatives in line with objectives. Operations are often flexible, systematic, development-oriented, creative and active. • Select the appropriate techniques and models for activities, and justify the choices. • Act in customer-oriented ways and according to the situation. • Promote group activities. • Able to critically apply ethical principles in the subject field in one's conduct and tasks.	• Apply professional concepts expertly and extensively, and manage the big picture. • Develop occupational safety of their operating environment. • Develop operating methods by comparing, combining and selecting research knowledge. • Work independently and innovatively in line with objectives. Activities are mostly creative, focused on developing the workplace and distinctly professional. • Select, combine and develop appropriate techniques and models for activities. • Take initiatives and act responsibly in customer relations, and understand the meaning of customer relationships for the big picture. • Develop and renew activities of multidisciplinary teams. • Critically apply ethical principles in the subject field in complex and unanticipated situations.
GOOD grade 3 Students are able to:	• Apply professional concepts systematically. • Apply occupational safety instructions in their activities. • Justify, compare and analyse their activities using general guidelines. • Able to cope independently in different tasks in each operating environment. • Apply acquired techniques and models diversely. • Act professionally in customer situations. • Work in a group in line with objectives. • Justify their activities in accordance with ethical principles..	• Apply professional concepts expertly. • Take care of occupational safety for themselves and the work community, and perceive development objects. • Select methods of operation in accordance with research knowledge and guidelines. • Work systematically and critically in line with objectives in complex situations. Operations are often flexible, systematic, creative and active. • Select the appropriate techniques and models for activities, and justify the choices. • Prioritise and maintain customer relationships. • Promote group activities. • Critically apply ethical principles in the subject field in one's conduct and tasks.

SATISFACTORY, grade 1 Students are able to:	• Apply most important/individual and appropriate professional concepts, and indicate their familiarity with the knowledge base. • Act safely, although activities are often schematic/ experimental/ fumbling/ self-involved. • Comply with rules and instructions, and justify their activities using provided instructions. • Act appropriately under guidance. • Use acquired techniques and models. • Take customers into account in their actions. • Act as group members. • Act in accordance with ethical principles.	• Apply professional concepts systematically. • Comply with occupational safety instructions responsibly and independently. • Justify and analyse their activities using general guidelines and in accordance with evidence-based information. • Act professionally and responsibly in unanticipated customer and problem situations. • Work independently in different tasks in each operating environment. • Apply acquired techniques and models diversely. • Act in customer-oriented ways and according to the situation, and understand customer needs. • Work in a group in line with objectives. • Act and justify their activities in accordance with ethical principles.
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The assessments draw on the students' self and peer assessments and the assessments of employer representatives. The students can also avail themselves of recognition of prior learning (RPL). Assessment helps the students to monitor the development of their competence and the achievement of their personal goals in relation to the competence requirements set for the degree.

INTERNATIONAL COMPARABILITY OF THE DEGREE

Competence is at the centre of all activities at Laurea, and we recognize competence in a comprehensive sense. General working life capabilities specified at the national level and defined in greater detail at Laurea have been taken into account in the degree contents.

The level of the degree corresponds with level 6 of the National Qualifications Framework (NQF) and level 6 of the European Qualifications Framework (EQF).

In the curriculum, the learning outcomes of a study unit are described for level 3, good skills, on the assessment scale (1-5).

CURRICULUM DEVELOPMENT

The curriculum is developed by using evaluation, monitoring and feedback data. Changes may occur in the study units and implementation modes of the modules. The offering of the complementary modules is constantly under development to match the requirements of the working life and thus the offering may change during the studies.

		1. year	2. year	3. year	4. year
Y	CORE COMPETENCE	65	40	50	
R012	COMPETENCE IN BUSINESS AND ENTREPRENEURSHIP				
R0050	Development Towards Professional Expertise and Interaction	10			
R0051	Business Operations	10			
E9944	Entrepreneurship	5			
R0013	Swedish for Bachelors of Business Administration	5			
00203	Initial Test in Swedish Skills	0			
00634	Oral skills in Swedish	0			
00635	Written skills in Swedish	0			
R0049	Finnish Language and Communication	5			
00636	Written skills in Finnish	0			
00637	Oral skills in Finnish	0			
A853	COMPETENCE IN ICT				
E9952	Development and visual design of websites	10			
R0027	Fundamentals of Programming	5			
E9950	Database management and basics of databases	5			
E9951	Information networks, information security and operating systems	5			
R0023	Professional Communication in English	5			
00202	Initial Test in English Skills	0			
E261	EXPERTISE IN BUSINESS INFORMATION SYSTEMS				
E9956	Development of web content		5		
E9958	User-centered Design		5		
E9957	Defining and designing a software project		10		
E9964	Workplace communication		5		
E9960	E-business		5		
R002	EXPERT IN A WORK COMMUNITY				
R0003	Placement 1			15	
R0004	Placement 2			15	
R001	EXPERT IN DEVELOPMENT AND WORKPLACE INNOVATION				
R0043	Career Planning		5		
R0044	Research Communications and Project Management Skills			5	
R0046	Research and Development Methods		5		
R0045	Thesis			15	
T	COMPLEMENTARY COMPETENCE				
R020	OTHER COMPLEMENTARY COMPETENCES				
		65	40	50	0

R012 COMPETENCE IN BUSINESS AND ENTREPRENEURSHIP , 30 cr

Description:

During the module, interactive skills and competences in business, entrepreneurship and project work are developed.

After completing the module, students are able to recognise and evaluate opportunities in the business environment, and analyse and assess the prerequisites for successful business. Students know how to act in an entrepreneurial and customer-oriented manner. They are able to work in projects, create networks and engage in cooperation with both Finnish and international partners. Students also achieve the level of competence in Swedish required from public servants.

Learning process:

The competences described in the module can be developed either by participating in study units or working in projects. Please note that in some education forms projects are the primary way of gathering credits.

In the projects you participate in the development work of domestic or international businesses and communities and in project work. The language used in the project can be either Finnish or English. Projects can also focus on developing the student's own business. The topic of the project and the competences developed by participating in it will be clarified when the project is added to the study offer. The scope of the project will be agreed on in each case. The competences generated in the projects can partly be included in the learning outcomes of some other module(s) and thus the credits can be divided between several modules.

Responsible persons:

Hyvinkää: Pyry Airaksinen ja Teppo Leppälahti

Kerava: Suvi Sivén

Leppävaara: Susanna Nieminen

Lohja: Kirsi Kamphuis

Otaniemi: Eeva Miettinen

Tikkurila: Tiina Turku

R0050 Development Towards Professional Expertise and Interaction, 10 cr

The student is able to:

The student is able to

- act independently and plan competence development
- communicate interactively and effectively in an organization
- act ethically and safely in ICT environments
- use information and communication technologies in studies and business operations
- work in a goal-oriented manner in international teams and in an entrepreneurial manner in projects
- acquire information to support development work using various methods and evaluate, process and analyze this information

R0051 Business Operations, 10 cr

The student is able to:

The student is able to

- describe the core and supporting processes of an organization
- define the functions, processes and IT systems of an organization and understand how they are linked to each other
- assess the performance of logistics as a part of the supply chain
- do bookkeeping for a small company
- utilize information produced by financial management

E9944 Entrepreneurship , 5 cr

The student is able to:

The student is able to

- assess and develop their own capabilities as entrepreneur and are familiar with the social obligations and opportunities associated with entrepreneurship.
- analyse and utilise information on the financial and operational results of their own entrepreneurial activities and draw conclusions about measures to be taken based on such information.
- prepare a business plan and assess the feasibility of a business plan
- perform the calculations necessary when establishing a new business and prepare the documents necessary for establishing a business.
- work in an entrepreneurial manner.

R0013 Swedish for Bachelors of Business Administration, 5 cr

The student is able to:

The student is able to

- communicate in Swedish both orally and in writing in various field-specific work and communication tasks
- take into consideration the special characteristics of the Nordic operating environment
- communicate in Swedish at the B1.2 level in accordance with the Common European Framework of Reference for Languages and pass the civil service language proficiency certificate

00203 Initial Test in Swedish Skills, 0 cr

Study unit description:

At the beginning of their studies, all students who have English and/or Swedish qualifications on prior certificates required for studies at Laurea, or who have received previous instruction in English and/or Swedish take initial tests in these languages. The initial tests are the same for all fields of study and may only be taken once. Students who transfer between degrees within Laurea do not have to retake the test. The test is used to check the students' starting level before language studies begin. Students who fail the test must take preparatory studies in the language at the start of their studies. Having passed the preparatory studies, students obtain credits for inclusion in elective studies.

00634 Oral skills in Swedish, 0 cr

Study unit description:

This study unit is for evaluating oral skills in Swedish.

00635 Written skills in Swedish, 0 cr

Study unit description:

This study unit is for evaluating written skills in Swedish.

R0049 Finnish Language and Communication, 5 cr

The student is able to:

The student is able to:

- use the tools of language planning and language knowledge
- write pragmatic texts
- write online texts
- make different speeches and presentations

- act as an active participant in meetings and negotiations

Study unit description:

The study unit is for those whose language of education is Swedish and who have studied Finnish as a second national language. After passing the study unit, students meet the language skills requirements for Finnish as the second official language in public administration and the civil service language proficiency certificate will be registered in student's records.

00636 Written skills in Finnish, 0 cr

00637 Oral skills in Finnish, 0 cr

A853 COMPETENCE IN ICT, 30 cr

Description:

During this module, students learn about the operating environment of the ICT sector and issues related to information security. Students are able to create software using basic programming structures. Students learn how to build simple applications and user interfaces and can explain the structures of an information network. They are able to communicate in English to perform the tasks required in their field.

Learning process:

The competences described in the module can be developed either by participating in study units or working in projects. Please note that in some education forms projects are the primary way of gathering credits.

In the projects you participate in the development work of domestic or international businesses and communities and in project work. The language used in the project can be either Finnish or English. Projects can also focus on developing the student's own business. The topic of the project and the competences developed by participating in it will be clarified when the project is added to the study offer. The scope of the project will be agreed on in each case. The competences generated in the projects can partly be included in the learning outcomes of some other module(s) and thus the credits can be divided between several modules.

Responsible persons:

Leppävaara: Antonius De Arruda Camara

Tikkurila: Eeva Haikonen

E9952 Development and visual design of websites, 10 cr

The student is able to:

The students are able to

- develop websites using tools and technologies central in the field
- develop and publish contents to be presented in online contexts
- describe, develop and implement user interfaces from the perspective of supporting the strategic objectives of the customer
- assess the development needs and functionality of websites
- apply the basics and theory of visual design in the designing of a user interface
- develop a creative visual identity for a website that reflects the topic of the site
- carry out the production process of digital photographs, from the adjusting and editing of photographs to the creation of multimedia elements
- function as a responsible team member in digital media production implemented in project form
- take responsibility for the learning of the group and the sharing of things learned

R0027 Fundamentals of Programming , 5 cr

The student is able to:

The student is able to

- use the fundamental syntax and building blocks of programming languages
- plan, implement and test small-scale programs in accordance with the best practices of programming

E9950 Database management and basics of databases, 5 cr**The student is able to:**

The students are able to

- administer and use relational databases
- design and implement relational databases
- apply methods of concept analysis in the modelling of targets in the real world
- use SQL language as a tool in database administration

E9951 Information networks, information security and operating systems, 5 cr**The student is able to:**

The students are able to

- operate a computer using different operating systems
- explain the basic functioning and structure of information networks
- take into account matters pertaining to information security in the use of a computer and local area networks

R0023 Professional Communication in English, 5 cr**The student is able to:**

The student is able to

- communicate as a professional in field-specific tasks and in intercultural contexts
- speak and write in English with an understanding of the appropriate style and register
- identify personal communication needs and develop realistic strategies for improvement

00202 Initial Test in English Skills, 0 cr**Study unit description:**

At the beginning of their studies, all students who have English and/or Swedish qualifications on prior certificates required for studies at Laurea, or who have received previous instruction in English and/or Swedish take initial tests in these languages. The initial tests are the same for all fields of study and may only be taken once. Students who transfer between degrees within Laurea do not have to retake the test. The test is used to check the students' starting level before language studies begin. Students who fail the test must take preparatory studies in the language at the start of their studies. Having passed the preparatory studies, students obtain credits for inclusion in elective studies.

E261 EXPERTISE IN BUSINESS INFORMATION SYSTEMS, 30 cr**Description:**

After completing the module, the student is able to acting as a designer, implementer and developer of digital and interactive online services. The student is capable of following the design process of user-centred design while utilising applied research and development activities.

Learning process:

The competences described in the module can be developed either by participating in study units or working in

projects. Please note that in some education forms projects are the primary way of gathering credits.

In the projects you participate in the development work of domestic or international businesses and communities and in project work. The language used in the project can be either Finnish or English. Projects can also focus on developing the student's own business. The topic of the project and the competences developed by participating in it will be clarified when the project is added to the study offer. The scope of the project will be agreed on in each case. The competences generated in the projects can partly be included in the learning outcomes of some other module(s) and thus the credits can be divided between several modules.

Responsible persons:

The module is no longer offered.

E9956 Development of web content, 5 cr

The student is able to:

The students are able to

- utilise the opportunities provided by Rich Internet Applications (RIA) as part of the process of developing online services
- design and develop applications that utilise RIA contents
- utilise open data and databases and data available in this manner in the students' own applications
- use the various development environments and libraries of RIA applications
- remain up-to-date on the opportunities offered by new and emerging technologies

E9958 User-centered Design, 5 cr

The student is able to:

The students are able to

- apply the design process of user-centred design in their work
- organise, analyse and report a user survey
- use prototypes in the designing of user interfaces
- utilise existing information and methods in the field in different projects

E9957 Defining and designing a software project, 10 cr

The student is able to:

The students are able to

- apply methods of software engineering
- communicate with customers in order to map needs and determine user requirements
- determine user-centred requirements for software, usability and information
- document software requirements
- design online applications
- work responsibly as part of a software development team
- apply different methods of software engineering in actual projects

E9964 Workplace communication, 5 cr

The student is able to:

The students are able to

- implement and assess communications of an organisation in the languages required at the workplace
- in their roles as experts, communicate about themselves, their tasks and their work community
- function appropriately in meetings and negotiations and in different communication and interaction situations related to their work

E9960 E-business, 5 cr

The student is able to:

The student is able to

- assess the opportunities created by information and communication technologies for business
- analyse the models and practices of e-business
- design and develop web-based products and services

R002 EXPERT IN A WORK COMMUNITY, 30 cr

Description:

During the module, students deepen their expertise in their chosen field.

They learn how to apply for jobs that support their career plan and to act responsibly in national and international positions requiring professional expertise. Students develop the capacity to develop the activities of the organisation and their own expertise.

Responsible persons:

Hyvinkää: Taru Tallgren

Kerava: Suvi Sivén

Leppävaara: Virpi Castren

Lohja: Kirsi Kamphuis

Otaniemi: Merja Wirman

Tikkurila: Mikko Karppanen

R0003 Placement 1, 15 cr

The student is able to:

The student is able to

- apply into practice what he/she has learnt
- analyse and structure the contents and methods of his/her work
- participate with his/her input in the development work of a company's practices and business processes
- develop his/her business competencies
- evaluate his/her competencies and their development

R0004 Placement 2 , 15 cr

The student is able to:

The student is able to

- evaluate his/her competencies and the requirements of working life
- develop and deepen his/her business competencies
- develop the business operations of an organization as a member of a professional team
- establish personal working life connections and act in networks
- evaluate his/her competencies and their development
- plan his/her study path and career

R001 EXPERT IN DEVELOPMENT AND WORKPLACE INNOVATION, 30 cr

Description:

The objective of the module is to develop the students' abilities to study individually and in teams, to prepare to carry out research and development work, and to support career development and the creation of a work identity.

At the beginning of their studies students acquire familiarity with the tools required in higher education and the operating methods of development-based learning. After completing the module, students are able to work responsibly both independently and as team members. They are able to assess and develop themselves as learners and are capable of identifying development targets in the workplace.

Students are able to plan, implement and evaluate a project in cooperation with different networks in the workplace. They are able to employ appropriate research methods and the methods of development activities and project work. Students are able to identify creative and innovative solutions for the challenges of workplace development.

Students are able to report the results of their development work using a style of writing characteristic of research. Students are able to plan their studies, development and career with an eye on the development prospects of their own field.

Learning process:

The competences described in the module can be developed either by participating in study units or working in projects. Please note that in some education forms projects are the primary way of gathering credits.

In the projects you participate in the development work of domestic or international businesses and communities and in project work. The language used in the project can be either Finnish or English. Projects can also focus on developing the student's own business. The topic of the project and the competences developed by participating in it will be clarified when the project is added to the study offer. The scope of the project will be agreed on in each case. The competences generated in the projects can partly be included in the learning outcomes of some other module(s) and thus the credits can be divided between several modules.

Responsible persons:

Hyvinkää: (liko) Kimmo Kuitunen (sote, sh) Minna Pulli ja Eila Marttila (sosiaaliala) Kaarina Marjanen

Kerava: Minna-Kaisa Lehtilinnä

Leppävaara: Birgit Aurela

Lohja:(sote) Eliisa Kukkola (liko kevät 2015) Taina Lackman

Otaniemi: Hannamari Talasma, Marjaana Marmo

Porvoo: Maija-Leena Kukkonen

Tikkurila: Hanna Väättäjä (moduulivastaava monialaisessa tiimissä), Tikkurila (liko): Marilla Kortesalmi, Tikkurila (kauneus): Nina Lahtinen, Tikkurila (tiko): Eeva Haikonen, Tikkurila (terveys) Kirsi Ronkainen

R0043 Career Planning, 5 cr

The student is able to:

The student is able to

- plan his/her own studies and occupational development from the perspective of working life
- use different learning methods and tools successfully to support studies
- act independently and as a member of a team
- reflect, evaluate and develop himself/herself as a learner
- recognize existing opportunities in the international labour market
- identify the characteristics of working life and different work cultures

R0044 Research Communications and Project Management Skills, 5 cr

The student is able to:

The student is able to

- plan, implement and evaluate a practical project in multiprofessional cooperation
- apply his/her own communication competencies into his/her development project
- carry out a report
- discuss and argue the studies related to his/her own field and development work
- evaluate the meaning and effectiveness of his/her own actions

R0046 Research and Development Methods , 5 cr

The student is able to:

The student is able to

- choose the proper methods for development project and give reasons for these choices
- collect empirical data and analyse it
- interpret empirical results
- make conclusions based on empirical results
- recognizes the ethical point of view of the research and development work
- evaluate the reliability and validity of research

R0045 Thesis, 15 cr

The student is able to:

The student is able to

- present justified suggestions for development in relation to working life
- conceptualize phenomena related to working life based on research results
- use proper research and development methods in order to produce new knowledge
- act in development projects cooperatively and in a responsible manner with working life and other partners
- evaluate his/her own activities and solutions critically
- understand concepts in an extensive scale and present topics logically and based on arguments

R020 OTHER COMPLEMENTARY COMPETENCES, 15 cr

Description:

The aim of the studies offered in this module is to develop student's basic knowledge and skills. The studies will give basic abilities for the student to be able to manage on his/her studies in his/her field of studies. The student will conduct the appropriate studies from this module according to the initial tests or his/her needs. After completing the studies the student will have gained basic knowledge and skills to develop his/her skills to apply these competences.

Also other studies which develop professional skills can be offered in this module. Studies completed elsewhere can always be placed in this module.

Learning process:

The competences described in the module can be developed either by participating in study units or working in projects. Please note that in some education forms projects are the primary way of gathering credits.

In the projects you participate in the development work of domestic or international businesses and communities and in project work. The language used in the project can be either Finnish or English. Projects can also focus on developing the student's own business. The topic of the project and the competences developed by participating in it will be clarified when the project is added to the study offer. The scope of the project will be agreed on in each case. The competences generated in the projects can partly be included in the learning outcomes of some other module(s) and thus the credits can be divided between several modules.

Responsible persons:

Hyvinkää, sote: Terhi Hautaviita

Lohja, sote: Anu Elorinne

Porvoo: Erja Annola

Tikkurila: Marja Vellonen