

## **LAUREA UNIVERSITY OF APPLIED SCIENCES**

**Tietojenkäsittelyn koulutus ( Laurea, Tikkurila, tiko ), NTV217SN**

### **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. Our mission is to educate, research, develop and innovate. In our activities we apply the action 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.

Laurea's strategic research areas are based on strong expertise on which the education offered by Laurea is based. Strategic research areas are health and societal integrity, comprehensive security and service business. Student entrepreneurship is supported and entrepreneurship 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.

### **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. Studies 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 offering.



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 campuses
- select English studies from Laurea's offer of English education, even if you are studying in Finnish education,
- select Finnish studies from Laurea's offer of Finnish education, even if you are studying in an English education.
- select studies taught in Finnish from Laurea's offer of Finnish education
- select online studies that give you more flexibility in your study schedules, and
- develop your competence by taking part in projects and
- utilize work-based learning
- include in your degree studies offered by the offer of Laurea, Haaga-Helia and Metropolia University of Applied Sciences.

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

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                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>REFLECTION COMPETENCE</b><br><br><i>learning skills (EQF)</i><br><br>Assessment and development of the learner's personal competence and that of others in order to achieve the learning outcomes | <ul style="list-style-type: none"> <li>• is able to solve problems associated with his/her role, operating methods and competence in a goal-oriented manner to reach a target</li> </ul>                                                                  | <ul style="list-style-type: none"> <li>• 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.</li> <li>• brings up the views put forward by experts that he/she appreciates as the project progresses</li> </ul> |
|                                                                                                                                                                                                      | <ul style="list-style-type: none"> <li>• 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</li> </ul> | <ul style="list-style-type: none"> <li>• in a goal-oriented manner, compares different perspectives together with other project actors</li> </ul>                                                                                                                                                                                                |
|                                                                                                                                                                                                      | <ul style="list-style-type: none"> <li>• 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</li> </ul>                                       | <ul style="list-style-type: none"> <li>• models a development project as a whole from the perspective of impact</li> </ul>                                                                                                                                                                                                                       |

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| <b>ETHICAL COMPETENCE</b> | <ul style="list-style-type: none"> <li>• is able to follow the principles of equality and fairness</li> <li>• is able to apply the underpinning values and principles of vocational ethics typical of his/her field to his/her actions</li> <li>• is able to apply the principles of sustainable development (environmental, social and financial responsibility)</li> <li>• acts as a responsible global citizen</li> </ul> | <ul style="list-style-type: none"> <li>• follows the agreed operating methods</li> <li>• is considerate to others, gives space to other people's ideas and listens</li> <li>• 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</li> <li>• understands that local actions may also have international impacts and vice versa</li> </ul> |
|                           | <ul style="list-style-type: none"> <li>• accepts responsibility for his/her own actions</li> <li>• accepts responsibility for the actions of the group</li> </ul>                                                                                                                                                                                                                                                            | <ul style="list-style-type: none"> <li>• recognizes conflicts associated with choices</li> <li>• compares and takes into consideration different viewpoints, is able to let go of selfish needs in order to achieve a common good</li> <li>• shows appreciation for the work and outputs of others, for example by citing the original sources</li> </ul>                                                                                                                           |
|                           | <ul style="list-style-type: none"> <li>• draws on his/her competence to have an impact in society (LbD regional development)</li> </ul>                                                                                                                                                                                                                                                                                      | <ul style="list-style-type: none"> <li>• designs/develops customer/client-oriented and sustainable solutions including a financial, social and environmental aspect</li> </ul>                                                                                                                                                                                                                                                                                                      |

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| <b>COMMUNICATION COMPETENCE (IN WORK COMMUNITY)</b><br><br><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> | <ul style="list-style-type: none"> <li>• is able to communicate appropriately in interactive situations of the work community and communicate in inter-cultural situations</li> </ul>                                                                                                                         | <ul style="list-style-type: none"> <li>• observes the communication requirements and capacities of the project</li> <li>• by his/her personal action, promotes a constructive atmosphere (appropriate, constructive criticism)</li> <li>• values, listens to and respects different communicators and cultures and linguistic diversity</li> <li>• applies his/her communication competence to different people</li> <li>• communicates in a foreign language</li> <li>• uses ICT in his/her tasks</li> </ul> |
|                                                                                                                                                                                                                                                                                                               | <ul style="list-style-type: none"> <li>• is able to communicate responsibly as part of a multi-disciplinary work community / network</li> <li>• is able to organise communications in a work community</li> <li>• is able to evaluate communication competence needed in multicultural cooperation</li> </ul> | <ul style="list-style-type: none"> <li>• communicates to promote well-being in the community</li> <li>• acts as an active and goal-oriented partner in cooperation and networks globally</li> <li>• shares information and takes initiative in disseminating information on the project's progress using various communication channels</li> </ul>                                                                                                                                                            |

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|  | <ul style="list-style-type: none"> <li>is able to evaluate the impacts and possibilities of internationalisation development</li> </ul>                                                                                                                                                  | <ul style="list-style-type: none"> <li>finds solutions to communication challenges</li> <li>constructs and organises network partnerships in cooperation with project actors</li> </ul>                                                                                                                                                                                                                                               |
|  | <ul style="list-style-type: none"> <li>is able to renew communication modes</li> <li>is able to direct communications</li> <li>is able to develop working life connections and networks</li> <li>is able to have an impact in society by communicating about project outcomes</li> </ul> | <ul style="list-style-type: none"> <li>has the courage to challenge him/herself and others to act</li> <li>tolerates uncertainty, incompleteness and the possibility of failing in communication situations</li> <li>acts professionally, interprets and controls emotions in critical interactive situations</li> <li>builds and develops online partnerships independently</li> <li>uses renewing modes of communication</li> </ul> |

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| INNOVATION COMPETENCE | <ul style="list-style-type: none"> <li>is able to identify elements needing change in working life / a project</li> <li>is able to use appropriate project and R&amp;D methods</li> <li>is able to apply a development-oriented work approach in an RDI project</li> </ul> | <ul style="list-style-type: none"> <li>obtains and processes knowledge in his/her field in relation to the RDI project</li> <li>brings up practicable development ideas emerging from the project</li> </ul>                                                                                                                     |
|                       | <ul style="list-style-type: none"> <li>is able to organise an RDI project</li> <li>is able to analyse and interpret an innovation process applying existing international knowledge</li> </ul>                                                                             | <ul style="list-style-type: none"> <li>documents and reports: describes knowledge or operating methods that renew working life in line with the project targets</li> <li>brings up international standards and practices relevant to the field and follows them</li> <li>has the courage for constructive questioning</li> </ul> |
|                       | <ul style="list-style-type: none"> <li>is able to create new working methods by using creative problem-solving and finds customer/client -oriented, sustainable and cost-effective solutions</li> </ul>                                                                    | <ul style="list-style-type: none"> <li>suggests and implements solutions bravely and creatively, justifies his/her point of view</li> <li>has visions of future (foresight, ability to also see the past)</li> <li>is creative</li> </ul>                                                                                        |

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| <b>MANAGEMENT COMPETENCE</b><br><br><b>Management</b><br><br>comprises goal-oriented, interactive social activity. Management guides the way people act. The aim of management is that a group <a href="#">of people</a> will work better and more efficiently than without management | <ul style="list-style-type: none"> <li>is able to draw on the basics of management and entrepreneurial operation as part of project work</li> </ul>                                                                               | <ul style="list-style-type: none"> <li>recognizes his/her role in order to manage his/her own actions in the project</li> <li>identifies the goals of the project and sets goals for him/herself</li> </ul> |
|                                                                                                                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>is able to lead a development project as a Project Manager</li> <li>is able to promote a communal spirit among those participating in a development project by personal example</li> </ul> | <ul style="list-style-type: none"> <li>draws up a project plan (legal and financial aspects)</li> </ul>                                                                                                     |

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|  |                                                                                                                                                                                                         | <ul style="list-style-type: none"> <li>communicates about decisions and project changes, solves communication and interaction problems</li> <li>plans and implements a budget</li> <li>organises project activities and allocates responsibilities and tasks to actors</li> <li>supports the actors' development as Project Manager</li> <li>makes decisions in unexpected situations</li> <li>identifies risks and takes steps to find a solution</li> <li>monitors and evaluates the project in comparison to the plan</li> </ul> |
|  | <ul style="list-style-type: none"> <li>is capable of proactive management</li> <li>is able to generalise management competence produced in a development project in working life development</li> </ul> | <ul style="list-style-type: none"> <li>has visions of future</li> <li>renews management culture</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                          |

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 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                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>EXCELLENT</b><br><br>grade 5<br><br>Students are able to: | <ul style="list-style-type: none"> <li>Apply professional concepts expertly.</li> <li>Comply with occupational safety instructions responsibly and independently.</li> <li>Justify activities using research knowledge.</li> </ul> | <ul style="list-style-type: none"> <li>Apply professional concepts expertly and extensively, and manage the big picture.</li> <li>Develop occupational safety of their operating environment.</li> <li>Develop operating methods by comparing, combining and selecting research knowledge.</li> </ul> |

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|                                                 | <ul style="list-style-type: none"> <li>• Work independently and take initiatives in line with objectives. Operations are often flexible, systematic, development-oriented, creative and active.</li> <li>• Select the appropriate techniques and models for activities, and justify the choices.</li> <li>• Act in customer/client-oriented ways and according to the situation.</li> <li>• Promote group activities.</li> <li>• Able to critically apply ethical principles in the subject field in one's conduct and tasks.</li> </ul>                                                                  | <ul style="list-style-type: none"> <li>• Work independently and innovatively in line with objectives. Activities are mostly creative, focused on developing the workplace and distinctly professional.</li> <li>• Select, combine and develop appropriate techniques and models for activities.</li> <li>• Take initiatives and act responsibly in customer/client relations, and understand the meaning of customer/client relationships for the big picture.</li> <li>• Develop and renew activities of multidisciplinary teams.</li> <li>• Critically apply ethical principles in the subject field in complex and unanticipated situations.</li> </ul>                                                                                                                       |
| <b>GOOD</b><br>grade 3<br>Students are able to: | <ul style="list-style-type: none"> <li>• Apply professional concepts systematically.</li> <li>• Apply occupational safety instructions in their activities.</li> <li>• Justify, compare and analyse their activities using general guidelines.</li> <li>• Able to cope independently in different tasks in each operating environment.</li> <li>• Apply acquired techniques and models diversely.</li> <li>• Act professionally in customer/client situations.</li> <li>• Work in a group in line with objectives.</li> <li>• Justify their activities in accordance with ethical principles..</li> </ul> | <ul style="list-style-type: none"> <li>• Apply professional concepts expertly.</li> <li>• Take care of occupational safety for themselves and the work community, and perceive development objects.</li> <li>• Select methods of operation in accordance with research knowledge and guidelines.</li> <li>• Work systematically and critically in line with objectives in complex situations. Operations are often flexible, systematic, creative and active.</li> <li>• Select the appropriate techniques and models for activities, and justify the choices.</li> <li>• Prioritise and maintain customer/client relationships.</li> <li>• Promote group activities.</li> <li>• Critically apply ethical principles in the subject field in one's conduct and tasks.</li> </ul> |

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| <b>SATISFACTORY,</b><br>grade 1<br>Students are able to: | <ul style="list-style-type: none"> <li>• Apply most important/individual and appropriate professional concepts, and indicate their familiarity with the knowledge base.</li> <li>• Act safely, although activities are often schematic/ experimental/ fumbling/ self-involved.</li> <li>• Comply with rules and instructions, and justify their activities using provided instructions.</li> <li>• Act appropriately under guidance.</li> <li>• Use acquired techniques and models.</li> </ul> | <ul style="list-style-type: none"> <li>• Apply professional concepts systematically.</li> <li>• Comply with occupational safety instructions responsibly and independently.</li> <li>• Justify and analyse their activities using general guidelines and in accordance with evidence-based information.</li> <li>• Act professionally and responsibly in unanticipated customer/client and problem situations.</li> </ul> |
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|  | <ul style="list-style-type: none"> <li>• Take customers/clients into account in their actions.</li> <li>• Act as group members.</li> <li>• Act in accordance with ethical principles.</li> </ul> | <ul style="list-style-type: none"> <li>• Work independently in different tasks in each operating environment.</li> <li>• Apply acquired techniques and models diversely.</li> <li>• Act in customer/client-oriented ways and according to the situation, and understand customer/client needs.</li> <li>• Work in a group in line with objectives.</li> <li>• Act and justify their activities in accordance with ethical principles.</li> </ul> |
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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                                     | 67      | 32      | 56      |         |
| A853  | COMPETENCE IN ICT                                   |         |         |         |         |
| R0240 | The ICT Environment and Infrastructure              | 5       |         |         |         |
| R0027 | Fundamentals of Programming                         | 5       |         |         |         |
| R0244 | Foundations of Web Development                      | 5       |         |         |         |
| R0241 | Information Management and Databases                | 5       |         |         |         |
| R0242 | Data Networks and Information Security              | 5       |         |         |         |
| 00202 | Initial Test in English Skills                      | 0       |         |         |         |
| R0243 | Professional Communication in English               | 5       |         |         |         |
| R035  | COMPETENCE IN BUSINESS AND ENTREPRENEURSHIP         |         |         |         |         |
| R0209 | Competence in Business                              | 10      |         |         |         |
| R0210 | Business Law                                        |         |         | 5       |         |
| R0212 | Competence in Customer Relationships and Projects   | 10      |         |         |         |
| 00203 | Initial Test in Swedish Skills                      | 0       |         |         |         |
| R0013 | Swedish for Bachelors of Business Administration    | 5       |         |         |         |
| 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       |         |         |         |
| R037  | SERVICE BUSINESS                                    |         |         |         |         |
| R0218 | Digital Service Business and Marketing              |         | 10      |         |         |
| R0216 | Service Design                                      |         | 10      |         |         |
| R0217 | Corporate Social Responsibility                     |         | 5       |         |         |
| R0052 | Leadership and Management                           |         | 5       |         |         |
| R002  | EXPERT IN A WORK COMMUNITY                          |         |         |         |         |
| R0220 | Placement 1                                         |         |         | 15      |         |
| R0221 | Placement 2                                         |         |         | 15      |         |
| R001  | EXPERT IN DEVELOPMENT AND WORKPLACE INNOVATION      |         |         |         |         |
| R0180 | Career Planning: Tools for Professional Development | 2       |         |         |         |
| R0181 | Career Planning: Work Search and Work in the Future |         | 2       |         |         |
| R0182 | Career Planning: Working Life Competences           |         |         | 1       |         |
| R0183 | Project Management and Communication                | 5       |         |         |         |
| R0184 | Research and Development Methods                    |         |         | 5       |         |
| R0045 | Thesis                                              |         |         | 15      |         |
| T     | COMPLEMENTARY COMPETENCE                            |         |         |         |         |
|       |                                                     | 67      | 32      | 56      | 0       |

## **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

## **R0240 The ICT Environment and Infrastructure, 5 cr**

### **The student is able to:**

The student is able to

- describe the processes of information systems development, implementation and maintenance
- describe the structure and operational environment of information systems
- identify typical threats related to information security

## **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

## **R0244 Foundations of Web Development, 5 cr**

### **The student is able to:**

The student is able to

- design and implement web sites using fundamental web development tools and techniques
- design, create, and publish www content
- design and implement web site layouts according to customer needs
- evaluate web site development needs

## **R0241 Information Management and Databases, 5 cr**

### **The student is able to:**

The student is able to

- design and implement databases
- manage and use databases
- use query languages to search and modify data in a database

## **R0242 Data Networks and Information Security, 5 cr**

### **The student is able to:**

The student is able to

- describe the structure and operation of data networks in relation to the following terms: Local area networks, wireless networks, internet
- describe the functionality of IP-networks and key internet protocols
- implement and maintain basic services in a local area network
- justify the importance of information security according to the CIA model (Confidentiality, Integrity and Availability)
- identify common information security threats faced by organizations
- implement basic level information security safeguards for local area network

## **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.

## **R0243 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 intercultural contexts
- produce effective spoken and written texts using an appropriate style and register
- demonstrate knowledge of essential terminology needed in working life
- apply principles of interpersonal and organizational communication

## **R035 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.

In project learning environments, the development of competence is implemented in two parts, which are:

1. Competence in Business Operations (15 cr)

The student is able to

- recognise the opportunities, operators and networks in the business environment
- describe the significance of the competitive situation to the company's success
- describe the factors that contribute to profitable business
- apply field-specific key ethical and legal principles and norms

## 2. Competence in customer relationships and projects (15 cr)

The student is able to

- assess prerequisites for customer-oriented operation, and different customer needs and solutions
- act in an entrepreneurial and customer-oriented manner
- show initiative in projects and as a member of a project group in a responsible and goal-oriented way complying with information security regulations and taking advantage of the tools available
- communicate in Finnish and Swedish orally and in writing using field-specific concepts
- 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:**

Tikkurila: Tiina Turku

Leppävaara: Susanna Nieminen

Hyvinkää: Pyry Airaksinen, Teppo Leppälahti

## **R0209 Competence in Business, 10 cr**

### **The student is able to:**

The student is able to

- recognise the opportunities, operators and networks in the business environment
- describe the significance of the competitive situation for the company's success
- describe the factors that contribute to profitable business

## **R0210 Business Law, 5 cr**

### **The student is able to:**

The student is able to:

- apply in practice the legal norms and principles that govern business

## **R0212 Competence in Customer Relationships and Projects, 10 cr**

### **The student is able to:**

The student is able to

- evaluate prerequisites for customer-oriented operation, and different customer needs and solutions
- act in a customer-oriented manner in sales situations
- show initiative in projects and as a member of a project group in a responsible and goal-oriented way complying with information security regulations and taking advantage of the tools available
- communicate orally and in writing using field-specific concepts

### **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.

### **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

### **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**

#### **R037 SERVICE BUSINESS, 30 cr**

##### **Description:**

During the module student's competence in service business is strengthened. After completing the module student is able to create value for customers in service business. Student is able to use various tools in service design and digital marketing. Student is able to advance sustainability and responsibility in organizations. Student is able to make business decisions based on data.

In project-based learning environments competence will develop in two entities:

The aim of the first one (15 credits) is that the student is able to

- plan, implement and evaluate a Service Design project with service design methods
- develop sustainable practices in organisations

The aim of the second one (15 credits) is that the student is able to

- create and develop digital services
- develop and use digital tools for marketing purposes
- research and manage customer experiences
- analyze and use business reports in projects
- use strategic planning, analysis and decision making tools in project contexts
- make business decisions in various project contexts

##### **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. 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:**

Tikkurila: Jukka Rautio

Hyvinkää: Katriina Knuuti, Paul Dickinson

Leppävaara: Kati Tawast

Lohja: Annukka Jussila

Otaniemi: Anna Nolvi

#### **R0218 Digital Service Business and Marketing, 10 cr**

##### **The student is able to:**

The student is able to:

- analyze current trends in digital services
- develop digital service processes
- manage the digital customer experience

- market digital services
- plan how to use digital sales channels
- use digital tools to support marketing
- apply regulations of digital business

### **R0216 Service Design, 10 cr**

#### **The student is able to:**

The student is able to:

- describe how value is created for the customers through service
- recognize the essence of Service Design thinking and methods
- plan, implement and evaluate a Service Design project using service design methods
- apply creative problem-solving and develop working methods individually and in teams
- foster entrepreneurship through service design

### **R0217 Corporate Social Responsibility, 5 cr**

#### **The student is able to:**

The student is able to

- analyze environmental, social and economic responsibilities in service business
- develop sustainable practises in organisations

### **R0052 Leadership and Management, 5 cr**

#### **The student is able to:**

The student is able to

- evaluate and develop his/her own actions as a member of a work community and as a manager
- apply labour law and collective agreements
- evaluate the work community and well-being at work

### **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

### **R0220 Placement 1, 15 cr**

#### **The student is able to:**

The student is able to

- apply into practice what he/she has learnt
- analyse and develop the content and methods of his/her work
- participate in the development of practices and business processes in the company in which the placement is completed
- develop his/her business competencies
- evaluate his/her competencies and their development

## **R0221 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
- analyse and develop the content of his/her work and the operation of the organisation as a member of the work community
- 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: (liiko) Kimmo Kuitunen (sote, sh) Minna Pulli ja Eila Marttila (sosiaaliala) Kaarina Marjanen

Kerava: Minna-Kaisa Lehtilinnä

Leppävaara: Birgit Aurela

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

Otaniemi: Hannamari Talasma, Marjaana Marmo

Porvoo: Maija-Leena Kukkonen

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

### **R0180 Career Planning: Tools for Professional Development, 2 cr**

#### **The student is able to:**

The student is able to

- plan his/her own studies and professional development from the perspective of career planning and working life
- use different learning methods and tools successfully to support studies
- assess his/her learning abilities and her/his role in a team

### **R0181 Career Planning: Work Search and Work in the Future, 2 cr**

#### **The student is able to:**

The student is able to

- develop him/herself as an expert of his/her professional field and to plan his/her career
- describe his/her competences by using a portfolio and job application documents
- recognize existing career opportunities in the internationalizing labour market
- network with other actors in the field and understands his/her network and the possibilities of network co-operation

### **R0182 Career Planning: Working Life Competences, 1 cr**

#### **The student is able to:**

The student is able to

- describe the meaning of his/her general working life competences in the world of work
- apply for a job using a portfolio amongst other things
- apply his/her knowledge of employee rights and responsibilities for his/her employment

### **R0183 Project Management and Communication, 5 cr**

#### **The student is able to:**

The student is able to

- plan, implement and evaluate a practical project in multidisciplinary cooperation
- work in an appropriate way in multicultural organisations and networks
- acquire and use information to support development, and use ICT tools
- communicate appropriately and in a goal-oriented way in the communication and documenting situations required by the project

### **R0184 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 and 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
- apply the principles of research communication orally and in writing
- draw up and interpret research and development reports

**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