

Curriculum for the  
Bachelor's Degree Programme in  
Web Development  
Institutional section



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### 1. Order of examinations

*Overview of all examinations and their order*

## Curriculum for the Bachelor's Degree Programme in Web Development – Institutional section

Order of examinations	Exam	90 ECTS credits distributed across exams	Internal/external assessment	Assessment
1st year of study	1. Web Development (transition programme) a. Backend programming for multimedia designers or b. Frontend programming for computer scientists	10	Internal	7-point grading scale
1st year of study	2. Development Environments	10	Internal	7-point grading scale
1st year of study	3. Databases	10	External	7-point grading scale
1st year of study	4. Interface Design	10	External	7-point grading scale
1st year of study	5. Elective exam	10	Internal	7-point grading scale
1st year of study	6. Elective exam	10	Internal	7-point grading scale
3rd semester	7. Internship examination	15	Internal	7-point grading scale
External	8. Final exam project	15	External	7-point grading scale

Information about time and place for each exam can be found on Canvas.

## 2. Framework and criteria for programme exams

### 2.1 Exam: Web development, Backend programming for multimedia designers

#### Examination prerequisites

- Submission of two programming assignments. All assignments are to be submitted individually.
- The students work in pairs or individually with a module project to be presented to the class.

#### Formal requirements for programming assignment

- The submission takes place as specified in the module description which can be found on Canvas.

#### Formal requirements for presentation

- The student(s) make(s) an oral presentation for ten minutes to the class.

Non-performance of one or more prerequisites means that the students cannot sit the exam and that they will be considered to have made an exam attempt.

#### Examination procedure

Oral individual internally assessed exam graded according to the 7-point grading scale.

30 minutes are allocated per examinee, including time for deliberations.

At the exam the students present the module project. Following that there will be an exam dialogue which may include the topics of all compulsory educational components.

The exam is worth 10 ECTS credits.

#### **Assessment criteria**

The assessment criteria for the exam are the same as the learning outcomes for the compulsory educational component: Web Development, Backend programming

Learning outcomes are described in the national section of this Curriculum.

#### **Order of examinations**

The exam will take place in the 1st year of study. Information about time and place can be found on Canvas.

#### **Examination language**

English.

## **2.2 Exam: Web development, Frontend programming for computer scientists**

#### **Examination prerequisites**

- Submission of two programming assignments. All assignments are to be submitted individually.
- The students work in pairs or individually with a module project to be presented to the class.

#### **Formal requirements for programming assignment**

- The assignment is to be submitted as specified in the module description.

#### **Formal requirements for presentation**

- The student(s) make(s) an oral presentation for ten minutes to the class.

Non-performance of one or more prerequisites means that the students cannot sit the exam and that they will be considered to have made an exam attempt.

#### **Examination procedure**

Oral individual internally assessed exam graded according to the 7-point grading scale.

30 minutes are allocated per examinee, including time for deliberations.

At the exam the students present the module project. Following that there will be an exam dialogue which may include the topics of all compulsory educational components.

The exam is worth 10 ECTS credits.

#### **Assessment criteria**

The assessment criteria for the exam are the same as the learning outcomes for the compulsory educational component: Web Development, Frontend programming

Learning outcomes are described in the national section of this Curriculum.

### **Order of examinations**

The exam will take place in the 1st year of study. Information about time and place can be found on Canvas.

### **Examination language**

English.

## **2.3 Exam: Development Environments**

### **Examination prerequisites**

#### **The students work in groups or individually with a module project.**

- The module project is presented to the class three times in the course of the module.
- The module project is described in three written products in the course of the module.

#### **Formal requirements for module project presentations**

- The student(s) make(s) an oral presentation for 5-10 minutes to the class.
- The presentation must show the work made based on the learning outcomes for the module project set out in the programme.

#### **Formal written product requirements for the module project**

- Title page with project title, date and name of the student(s)
- The written products are to identify the learning outcomes set out in the module description.

Non-performance of one or more prerequisites means that the students cannot sit the exam and that they will be considered to have made an exam attempt.

### **Examination procedure**

Oral individual internal assessed exam graded according to the 7-point grading scale.

30 minutes are allocated per examinee, including time for deliberations.

At the exam the students present the module project. Following that there will be an exam dialogue which may include the topics of all compulsory educational components.

The exam is worth 10 ECTS credits.

### **Assessment criteria**

The assessment criteria for the exam are the same as the learning outcomes for the compulsory educational component: Development Environments

Learning outcomes are described in the national section of this Curriculum.

### **Order of examinations**

The exam will take place in the 1st year of study. Information about time and place can be found on Canvas.

### **Examination language**

English.

## **2.4 Exam: Databases**

### **Examination prerequisites**

#### **The students work in groups or individually with a module project.**

- The module project is presented to the class three times in the course of the module.
- The module project is described in three written products in the course of the module.

#### **Formal requirements for module project presentations**

- The student(s) make(s) an oral presentation for 5-10 minutes to the class.
- The presentation must show the work made based on the learning outcomes for the module project set out in the programme.

#### **Formal written product requirements for the module project**

- Title page with project title, date and name of the student(s)
- The written products are to identify the learning outcomes set out in the module description.

Non-performance of one or more prerequisites means that the students cannot sit the exam and that they will be considered to have made an exam attempt.

### **Examination procedure**

Oral individual externally assessed exam graded according to the 7-point grading scale.

30 minutes are allocated per examinee, including time for deliberations.

At the exam the students present the module project (ten minutes per student). Following that there will be an exam dialogue which may include the topics of all compulsory educational components.

The exam is worth 10 ECTS credits.

### **Assessment criteria**

The assessment criteria for the exam are the same as the learning outcomes for the compulsory educational component: Databases

Learning outcomes are described in the national section of this Curriculum.

### **Order of examinations**

The exam will take place in the 1st year of study. Information about time and place can be found on Canvas.

### **Examination language**

English.

## **2.5 Exam: Interface Design**

### **Examination prerequisites**

- Submission of one assignment The assignment is to be submitted individually.
- Presentation of one assignment The presentation is to be made individually.

- The students work in groups or individually with a module project to be presented to the class.

#### **Formal requirements for the assignment**

- The assignment is to be submitted as specified in the module description.

#### **Formal requirements for individual presentation**

- The student makes an oral presentation for ten minutes to the class.

#### **Formal requirements for module project presentations**

- The student(s) make(s) an oral presentation for ten minutes to the class.

Non-performance of one or more prerequisites means that the students cannot sit the exam and that they will be considered to have made an exam attempt.

#### **Examination procedure**

Oral externally assessed individual exam graded according to the 7-point grading scale.

30 minutes are allocated per examinee, including time for deliberations.

At the exam the students present the module project. Following that there will be an exam dialogue which may include the topics of all compulsory educational components.

The exam is worth 10 ECTS credits.

#### **Assessment criteria**

The assessment criteria for the exam are the same as the learning outcomes for the compulsory educational component: Interface Design

Learning outcomes are described in the national section of this Curriculum.

#### **Order of examinations**

The exam will take place in the 1st year of study. Information about time and place can be found on Canvas.

#### **Examination language**

English.

### **3. Elective educational components**

#### **Contents**

The elective educational components give the students the opportunity to qualify their study and professional competence through specialising and further expanding subjects that are broadly related to the web development field.

Each year the programme offers a number of elective educational components, which can be found on Canvas.

#### **ECTS credits**

The elective educational components are offered as two components worth 10 ECTS credits each.

#### **Learning outcomes**

### **Knowledge**

Upon completion of the course students should have acquired knowledge of

- the theory and practice of the selected subject(s); and
- the relevance of the selected subject(s) to the theory and practise of the web development subject.

### **Skills**

The students should be able to

- select, describe and perform literature search;
- discuss processual and analytical skills related to the selected subject(s);
- assess problems and suggest solutions in the context of the chosen subject(s); and
- convey central results.

### **Competences**

The students should be able to

- independently acquaint themselves with new subjects within the theory and/or practice of the subject area; and
- elaborate on and relate the chosen subject(s) to the other subject fields of the study programme.

### **Scheduled time**

The elective educational components are placed in the 1st year of the programme.

## **3.1 Exam: Elective educational component 1**

### **Examination prerequisites**

- Submission of a written product.

Non-performance of one or more prerequisites means that the students cannot sit the exam and that they will be considered to have made an exam attempt.

### **Formal written product requirements**

- The written product is to identify the learning outcomes set out in the module description.
- The written product must fill ten standard pages. One standard page is 2,400 characters including spaces and footnotes.

### **Examination procedure**

Oral internally assessed individual exam based on a written product and graded according to the 7-point grading scale. One individual overall grade is given based on an overall evaluation of the written and oral performance.

The oral part of the examination has a duration of 20 minutes, including time for deliberations. The students present the result of their work on the elective educational component, including the written product. This is followed by an examination dialogue.

The exam is worth 10 ECTS credits.

### **Assessment criteria**



The assessment criteria for the exam are the same as the learning outcomes for the elective educational component.

**Examination language**

English.

### **3.2 Exam: Elective educational component 2**

**Examination prerequisites**

- Submission of three programming assignments. All assignments are to be submitted individually.
- The students work in groups or individually with a module project to be presented to the class.

**Formal requirements for programming assignment**

- The assignment is to be submitted as specified in the module description.

**Formal requirements for module project presentations**

- The student(s) make(s) an oral presentation for ten minutes to the class.

Non-performance of one or more prerequisites means that the students cannot sit the exam and that they will be considered to have made an exam attempt.

**Examination procedure**

Oral internally assessed individual exam graded according to the 7-point grading scale.

30 minutes are allocated per examinee, including time for deliberations.

At the exam the students present the module project (ten minutes per student). Following that there will be an exam dialogue which may include the topics of all compulsory educational components.

The exam is worth 10 ECTS credits.

**Assessment criteria**

The assessment criteria for the exam are the same as the learning outcomes for the elective educational component.

**Examination language**

English.

## **4. Internship**

**Internship requirements and expectations**

During the internship the students will work on discipline-specific issues within the core areas of the study<sup>1</sup> while achieving knowledge of relevant work functions. The students will be associated with one or more companies during the internship. The internship may be organised in a flexible and differentiated manner and may form the basis of the student's final degree project.

1. See sections 10(2)(1), 11(2)(1) and 12(2)(1) of Ministerial Order no. 1521 of 16 December 2013 on Academy Profession Degrees and Professional Bachelor's Degrees.

Based on the learning outcomes for the internship, cf. the national section of this Curriculum, the student and the supervisor/contact person will collaborate on setting the specific goals for the learning outcomes of the internship.

These goals will guide the planning of the students' internship tasks and work.

The internship should be likened to a full-time job with the same requirements for working hours, effort, commitment and flexibility that graduates from the Bachelor's Degree Programme in Web Development can expect to meet in their first jobs.

#### **4.1 The internship exam**

Exam participation prerequisites:

- The internship report, which constitutes assessment as well as examination basis, must meet the formal requirements, cf. below, and be submitted in due time.

Non-performance of one or more study activities or incorrect submission of internship report, which constitutes the written part of the exam, means that the students cannot sit the exam and that they will be considered to have made an exam attempt.

##### **Examination procedure**

The exam is an internally assessed, individual oral examination based on the internship report and is graded according to the 7-point grading scale.

One individual overall grade is given based on an overall evaluation of the written and oral performance. 20 minutes are allocated per examinee, including time for deliberations.

The exam begins with the student giving a 5-minute presentation that takes its starting point in the internship. This is followed by 15 minutes of examination, including time for deliberations.

The exam is worth 15 ECTS credits.

##### **Formal written project requirements**

An internship report is to be submitted.

The internship report, which constitutes the written part of the exam, must as a minimum include:

- Cover page including name, place of internship, school, internship period
- Preface
- Introduction
- Description of the place of internship. (What is the object of the place of internship, number of employees, their profession, etc.)
- Reflections on specific learning outcomes
- Description of specific tasks
- Conclusion
- Statement from place of internship
- Reference list, if any (including all sources referred to in the project)
- Appendices, if any (include only appendices central to the report)

The internship report may not exceed ten standard pages excluding any appendices (log).

One standard page is 2,400 characters including spaces and footnotes. The pages are exclusive of cover page, table of contents and appendices. Appendices will not be assessed.

Non-performance of the prerequisites means that the students cannot sit the exam and that they will be considered to have made an exam attempt.

#### **Assessment criteria**

The assessment criteria for the exam are the same as the learning outcomes for: Internship

#### **Order of examinations**

The exam takes place following completed internship. Further information about time and location and submission of the internship report can be found on Canvas.

#### **Examination language**

English.

## **5. The Bachelor's Degree project**

For bachelor project requirements and learning outcomes, please see the national section of this Curriculum for the Bachelor's Degree in Web Development.

#### **Examination prerequisites**

- The written project, which constitutes the assessment as well as the examination basis, must
  - meet the requirements for the final exam project; see the national section of this Curriculum
  - be submitted in due time according to the exam plan, which can be found on Canvas.

Incorrect submission of the written project, which constitutes the written part of the exam, means that the students cannot sit the exam and that they will be considered to have made an exam attempt.

The exam will not take place until the students have passed the final exam of the internship as well as the other exams of the study programme.

#### **Examination procedure**

The exam is an externally assessed individual oral examination based on a written group project.

One individual overall grade is given based on an overall evaluation of the written and oral presentation. The exam is graded according to the 7-point grading scale.

The group may have up to four members.

The project is presented by the project group, ten minutes per student.

Following the presentation there will be an examination of the group members. 30 minutes are allocated per examinee, including time for deliberations.

The exam is worth 15 ECTS credits.

#### **Assessment criteria**

The assessment criteria for the exam are the same as the learning outcomes for the bachelor's degree project, cf. the national section of this Curriculum.

#### **Order of examinations**

The exam takes place at the end of the 3rd semester. Information about time and place can be found on Canvas.

#### **Examination language**

English.

## **6. Educational components that may take place abroad**

Each of the educational components of the study programme may take place abroad if the student applies for and is granted pre-approval of credit transfer by the study programme.

Upon pre-approval of a study abroad period the students must, after conclusion of their study abroad, document the completed educational components of the approved study abroad. In connection with the pre-approval the students must give their consent to the institution obtaining the necessary information following completed study abroad.

For the final approval of pre-approved credit transfer, the educational component is considered completed if it is passed in accordance with the regulations applying to the study programme.

## **7. Types of learning and teaching methods applied**

In the Bachelor's Degree Programme in Web Development we use a wide range of learning and teaching methods that combined support the students in achieving the learning outcomes described in this Curriculum.

The learning and teaching methods are based on Reflective Practice-Based Learning – the joint learning approach at UCN. Reflective Practice-Based Learning is based on the assumption that the ability to reflect on practice and specialist knowledge is decisive for participating in the development of the profession. Reflection takes place individually as well as together with others. The learning approach is based on a close connection between the students' discipline-specific, practical, social and personal acquisition of knowledge, skills and competences. The learning approach prepares UCN's graduates for acquiring new knowledge, skills and competences to qualify and develop practice.

The general learning and teaching methods are dialogue-based class tuition, assignments and project work individually and in groups, work in study groups, independent study and presentations in groups and for the entire classroom etc. etc. This is supplemented with the use of digital didactic methods such as *flipped classroom*.

Common to all these activities is that we always try to define (or help you define) clear goals for the learning activities. The expected distribution of the learning activities can be seen in the Study Activity Model, which is available at [ucnorth.dk](http://ucnorth.dk) – for the entire programme as well as the individual educational components.

Furthermore, we offer different activities that may help promote learning in the individual: individual guidance sessions and coaching. The tuition focuses on the work processes of web development in order to support the development of the skills and competences of the profession.

The learning and teaching methods reflect the fact that, apart from the purely IT-professional aspect, a professional bachelor must have achieved the following learning outcomes, among others:

- Learning competence: "*Must be able to identify their own learning needs and develop their own knowledge, skills and competences related to the profession,*" and
- Communications skills: "*Must be able to communicate practise-oriented and academic issues and solutions to collaboration partners and users.*" (...)"

(The Danish Ministry of Education: The Danish Qualifications Framework<sup>2</sup>.)

## **8. Credit transfer for elective educational components**

Passed elective educational components are equivalent to the corresponding educational components offered by other providers of this study programme as well as to educational components of other study programmes.

Pre-approved credit transfer can be applied for if credit is requested for educational components not offered by the programme.

## **9. Obligation to participate**

The description of the individual exam will state whether obligations to participate and any obligations to attend are prerequisites of participating in exams.

## **10. Criteria for assessing study activity**

Registration may be terminated for students who have not passed at least one exam over a continuous period of at least one year (non-compliance with study activity requirements).

Periods during which a student has been away due to leave of absence, maternity or paternity leave, adoption of a child, verified illness or military service do not count as non-compliance with study activity requirements.

On request, the student must provide documentation of such matters.

The study programme may grant exemption from these provisions in exceptional circumstances. Application for exemption must be submitted to the programme director for the study programme in question. The regulations in the Examination Order concerning the exams that the student must have participated in before the end of the second semester and passed before the end of the fourth semester as well as any deadlines for completion of the education stated in the ministerial order for the study programme will remain in force regardless of criteria for compliance with study activity requirements.

## **11. Language**

The teaching materials are in English, and the lessons are taught in English.

The students' English skills must meet the requirements of the Ministerial Order on admission to academy profession degree programmes and professional bachelor's degree programmes (the Admission Order). Students are not required to have any knowledge of foreign languages other than that stated in the Admission Order.

<sup>2</sup>[http://ufm.dk/en/education-and-institutions/recognition-and-transparency/transparency-tools/qualifications-frameworks/other-qualifications-frameworks/danish-qf-for-higher-education/qf\\_dk\\_he\\_261009.pdf](http://ufm.dk/en/education-and-institutions/recognition-and-transparency/transparency-tools/qualifications-frameworks/other-qualifications-frameworks/danish-qf-for-higher-education/qf_dk_he_261009.pdf)

### **11.1 Examination language**

Examinations must be taken in understandable English.

Students whose mother tongue is not Danish may apply for an exemption from the requirement that writing and spelling skills must form part of the assessment criteria for the final degree project. The application must be submitted to the programme not later than four weeks before the exam is to take place.

## **12. Withdrawal from exams**

The rules and regulations for withdrawal from exams can be found at [www.ucn.dk](http://www.ucn.dk) in the Examination Regulations for UCN's Undergraduate Programmes.

## **13. Resit and illness resit exams**

The rules and regulations for resit exams and resit exams due to illness (illness resit exams) can be found at [www.ucn.dk](http://www.ucn.dk) in the Examination Regulations for UCN's Undergraduate Programmes.

## **14. Study aids**

Any rules governing a restriction in the use of study aids are found in the description of the individual exam.

## **15. Special exam arrangements**

Students may apply for special exam arrangements if their medical condition or relevant specific disabilities qualify them to do so. The application must be submitted to the programme not later than four weeks before the exam is to take place. The application deadline may be extended in cases of sudden health-related problems. With the application the following should be enclosed: a medical certificate; a statement from e.g. a speech, hearing, dyslexia or blind institute; or other evidence of the health condition or relevant specific functional impairment.

Students whose mother tongue is not English may apply for permission to bring dictionaries to exams.

Applications for permission to bring other study aids must be submitted to the programme not later than four weeks before the exam is to be held.

## **16. Academic misconduct at exams**

When handing in a written exam assignment, the student must confirm by signature that the assignment was prepared without undue help.

### **16.1 Use of your own work and the work of others – plagiarism**

The rules for use of one's own or other people's work – plagiarism – can be found at [www.ucn.dk](http://www.ucn.dk) in the Examination Regulations for UCN's Undergraduate Programmes

## **16.2 Disciplinary actions in events of academic misconduct and disruptive behaviour**

The rules on disciplinary actions in events of academic misconduct and disruptive behaviour at examinations can be found at [www.ucn.dk](http://www.ucn.dk) in the Examination Regulations for UCN's Undergraduate Programmes.

## **17. Complaints about exams and appeals against decisions<sup>3</sup>**

The rules on complaints about exams and appeals against decisions can be found at [www.ucn.dk](http://www.ucn.dk) in the Examination Regulations for UCN's Undergraduate Programmes.

### **17.1 Complaints about legal matters**

Complaints about legal matters in decisions made by the assessors in connection with re-assessment or resit exams or the appeals board's decisions may be brought before University College of Northern Denmark within two weeks of the day the students were notified of the decision.

Complaints on the grounds of legal matters in decisions that were made by the institution according to the provisions of the Exam Order (e.g. legal incapacity, the hearing procedure, correct interpretation of the Exam Order etc.) may be brought before the educational institution. The educational institution will make a statement and the complainant must be given the opportunity to comment on this statement, the deadline for such comment being usually one week. The institution will forward the complaint, the statement and any comments made by the complainant to the Danish Agency for Higher Education. The institution will submit the complaint, the statement and any comments made by the complainant to the Danish Agency for Higher Education. The deadline for lodging complaints with the institution is two weeks (14 days) from the day the complainant was notified of the decision.

## **18. Exemption**

The institution may grant exemption from the rules in this institutional section of the curriculum that are laid down solely by the institution<sup>4</sup>, when found substantiated in exceptional circumstances. The institutions cooperate on a uniform exemption practice.

## **19. Effective date and transition provisions**

This institutional section of the curriculum enters into force on 1 September 2016 with effect for all students who are and will be registered in the programme and for all exams commenced on said date or thereafter.

3. See section 10 of Ministerial Order no. 1519 of 16 December 2013 on examinations in profession-oriented higher education programmes (the Exam Order): 10: <https://www.retsinformation.dk/Forms/R0710.aspx?id=160839>

4. This means that the individual institution cannot deviate from rules stemming from ministerial orders, such as the rule that the internship exam is to be assessed according to the 7-point grading scale, or that all exams must be passed before the students may sit an exam in the final exam project