



*This Diploma Supplement model was developed by the European Commission, Council of Europe and UNESCO/CEPES. The purpose of the supplement is to provide sufficient independent data to improve the international 'transparency' and fair academic and professional recognition of qualification (diplomas, degrees, certificates etc.). It is designed to provide a description of the nature, level, context, content and status of the studies that were pursued and successfully completed by the individual named on the original qualification to which this supplement is appended. It should be free from any value judgements, equivalence statements or suggestions about recognition. Information in all eight sections should be provided. Where information is not provided, an explanation should give the reason why.*

## 1 INFORMATION IDENTIFYING THE HOLDER OF THE QUALIFICATION

- 1.1 Family name(s): Berg  
1.2 Given name(s): Marit  
1.3 Date of birth (day/month/year): 11-11-1951  
1.4 Student identification number or code: 408830

## 2 INFORMATION IDENTIFYING THE QUALIFICATION

- 2.1 Name of qualification and (if applicable) title conferred (in original language):  
Philosophiae doctor (ph.d.)  
The title philosophiae doctor (ph.d.) is protected by law in Norway.
- 2.2 Main field(s) of study for the qualification:  
Natural sciences
- 2.3 Name and status of awarding institution (in original language):  
Universitetet i Oslo, a public university. The quality assurance system was evaluated and approved by the Norwegian Agency for Quality Assurance in Education in 2014.
- 2.4 Name and status of institution administering studies:  
See section 2.3
- 2.5 Language(s) of instruction/examination:  
English, Norwegian

## 3 INFORMATION ON THE LEVEL OF THE QUALIFICATION

- 3.1 Level of qualification:  
Third Cycle/Level 8, Norwegian Qualifications Framework for Lifelong Learning
- 3.2 Official length of the programme:  
3 years
- 3.3 Access requirements:  
To be admitted to the PhD programmes at the University of Oslo, an applicant must have completed at least five years of higher education, i.e. a master's programme or equivalent studies that have been recognised by the faculty as forming a sufficient basis for admission. The faculties may stipulate additional admission requirements.

## 4 INFORMATION ON THE CONTENTS AND RESULTS GAINED

- 4.1 Mode of study:  
Full-time studies
- 4.2 Programme requirements:

The PhD education at the University of Oslo shall educate independent researchers of high international standard, in accordance with recognised scientific and ethical principles. The programmes shall qualify candidates for research and other work requiring high levels of scientific insight and analytical thinking.

The degree philosophiae doctor (PhD) is awarded on the basis of:

- completion of the programme's educational component
- the doctoral thesis
- the doctoral examination

The educational component shall, together with the thesis work, provide an education of a high academic standard and include the completion of a scientific research project; training in the dissemination of academic knowledge; and an introduction to research ethics, the philosophy of science and scientific methods.

The thesis shall be an independent, scientific work that fulfils international standards with regard to ethical requirements, academic standards and methodology. The thesis shall contribute to the development of new scientific knowledge and must be of sufficiently high quality to merit publication as part of the scientific literature in the field.

The doctoral examination consists of the trial lecture and the public defence of the thesis, also known as the disputation. The thesis is evaluated in accordance with the University of Oslo's guidelines for the evaluation of doctoral degrees. The thesis, the trial lecture and the disputation are assessed as approved or not approved.

#### 4.3 Programme details:

Name: Marit Berg

Educational component		Semester	Credits	Grade
BIO9320	Systematics and Ecology of Marine Algae	2010 spring	10	Pass
BIO9902	Analyzing High Throughput Sequence Data in Microbial Community Ecology	2010 spring	2	Pass
BIO9381	Harmful Algae	2011 spring	10	Pass
BIO9905MERC1	Bioinformatics for Metagenomic Analyses and Environmental Sequencing	2011 spring	5	Pass
MNSES9100	Science, Ethics and Society	2014 spring	5	Pass

Doctoral thesis	Date	Result
<i>Symbiosis in the Hidden World of Protists - Diversity, Interactions and Novelty in the Marine Environment</i>	27.12.2016	Approved

Trial examination and public defense	Date	Result
Trial lecture on given topic <i>Does Baas Becking's Statement 'Everything Is Everywhere, but the Environment Selects' Still Hold True?</i>	17.02.2017	Approved
Disputation	17.02.2017	Approved

#### Credit system and grading

The academic year normally runs from mid-August to mid-June and lasts for 10 months. Courses are measured in "studiepoeng", considered equivalent to the European Credit Transfer System standard (ECTS credits). The full-time workload for one academic year is 1500 - 1800 hours of study / 60 "studiepoeng".

The Norwegian grading system consists of two grading scales: one scale with the grades pass or fail and one graded scale from A to E for pass and F for fail. The graded scale has the following qualitative descriptions:

<b>A</b>	Excellent	An excellent performance, clearly outstanding. The candidate demonstrates excellent judgement and a very high degree of independent thinking.
<b>B</b>	Very good	A very good performance. The candidate demonstrates sound judgement and a high degree of independent thinking.
<b>C</b>	Good	A good performance in most areas. The candidate demonstrates a reasonable degree of judgement and independent thinking in the most important areas.
<b>D</b>	Satisfactory	A satisfactory performance, but with significant shortcomings. The candidate demonstrates a limited degree of judgement and independent thinking.
<b>E</b>	Sufficient	A performance that meets the minimum criteria, but no more. The candidate demonstrates a very limited degree of judgement and independent thinking.
<b>F</b>	Fail	A performance that does not meet the minimum academic criteria. The candidate demonstrates an absence of both judgement and independent thinking.

The assessment is criterion referenced.

4.4 Grading scheme and, if available, grade distribution guidance:  
See section 4.3

4.5 Overall classification of the qualification (in original language):  
Not applicable

## **5 INFORMATION ON THE FUNCTION OF THE QUALIFICATION**

5.1 Access to further study:  
The degree Philosophiae Doctor (PhD) is on the highest level in the Norwegian educational system.

5.2 Professional status:  
The degree is an academic degree, not a professional degree.

## **6 ADDITIONAL INFORMATION**

6.1 Additional information:  
Not applicable

6.2 Further information sources:  
University of Oslo: <http://www.uio.no>  
Norwegian Agency for quality in education: <http://www.nokut.no>

## **7 CERTIFICATION OF THE SUPPLEMENT**

7.1 Date: 3 September 2018  
Date of original qualification: 17 February 2017

7.2 Signature:

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Geir V  
Sjef

7.3 Capacity:

7.4 Official stamp:

## 8. INFORMATION ON THE NATIONAL HIGHER EDUCATION SYSTEM

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### Higher education in Norway: Legislature

The Ministry of Education and Research has the overall responsibility for higher education in Norway. Higher education is offered by four types of higher education institutions: university (*universitet*), specialized university institution (*vitenskapelig høyskole*), accredited university college (*akkreditert høyskole*), and university college with accredited study programmes (*høyskole med akkrediterte studier*). The differences between the types of higher education institutions are related to their self-accrediting authority.

All public and private higher education in Norway is subject to the Act Relating to Universities and University Colleges (Lov 2005-04-01 nr 15). An institution's right to award specific degrees and the prescribed lengths of study are codified in Regulation concerning degrees and titles (FOR 2005-12-16 nr 1574). The awarding of master's degrees is regulated by the Regulations on requirements for awarding a master's degree (FOR 2005-12-01 nr 1392).

Since 2002 Norway has adhered to the objectives of the Bologna Process in the European Higher Education Area. Most of the elements have been implemented through the reform of the Norwegian higher education system carried out in 2003. Central to the reform has been a transition from the former degree system to the bachelor's, master's and doctoral degree structure, with a few exceptions.

Norwegian higher education qualifications make up the levels from 6 to 8 of the Norwegian Qualifications Framework for Lifelong Learning (NQF) from 2011, which is the national overarching qualifications framework<sup>1</sup>. It describes the levels of qualifications as defined by the total learning outcomes in terms of the knowledge, skills and general competence that graduates at various levels should have achieved<sup>2</sup>.

NQF was referenced to the European Qualifications Framework (EQF) in 2014.

### Quality assurance and accreditation of institutions and programmes

The Norwegian Agency for Quality Assurance in Education (NOKUT) is an autonomous governmental agency which provides external supervision and control of the quality of Norwegian higher education, as well as of all tertiary vocational education<sup>3</sup>. NOKUT accredits new study programmes, controls the existing ones, and provides a cyclic evaluation of the institutions' quality assurance systems for educational provision.

An accredited higher education institution is granted the right to offer educational provision, without having to apply to NOKUT for specific programme accreditation, in accordance with the authority that its institutional category implies:

- a) Universities may without external accreditation establish study programmes at all levels.
- b) Accredited university colleges have to apply for the accreditation of programmes at master and doctoral levels.
- c) In those fields where specialized university institutions and accredited university colleges have the right to award doctorates or corresponding degrees, they may themselves decide which study programmes and disciplines the institution shall provide.

University colleges without institutional accreditation must apply to NOKUT for accreditation of study programmes at all levels.

Lists of all accredited institutions, as well as of all accredited study programmes at the university colleges without institutional accreditation are available on [www.nokut.no](http://www.nokut.no)

### Admission requirements

The Higher Education Entrance Qualification is the successful completion of Norwegian upper secondary education with some specified courses. The Certificate of Upper Secondary Education and Training (*Vitnemål for videregående opplæring*) is based on 13 years of schooling.

Admission may also be gained by means of other qualifications recognized as being on a par with the Higher Education Entrance Qualification, such as recognition of prior learning and work experience.

Some fields of study have additional entrance requirements.

### Academic credit system

All Norwegian higher education institutions use a system of credits (*studiepoeng*) for measuring study activities considered equivalent to the European Credit Transfer and Accumulation System (ECTS). 60 ECTS credits (*studiepoeng*) are allocated to the workload of a full year of academic study, equivalent to 1500-1800 hours of study. 30 ECTS credits are normally allocated to one semester's full-time study. The academic year normally lasts for 10 months and runs from August to June.

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<sup>1</sup> National generic learning outcomes descriptions' levels for the bachelor's, master's and doctoral degrees were defined by the Instructions on the Norwegian Qualifications Framework for Higher Education in 2009.

<sup>2</sup> Learning outcomes for a specific NQF level show the minimum of what each learner should know, understand and be able to do after completing a learning process.

<sup>3</sup> Tertiary vocational education (TVE), level 5 in the NQF (EQF), is provided by *fagskoler*, which are considered as tertiary vocational education institutions. TVE is based on upper secondary education and training or equivalent competence. Courses have duration of from six months to two years. All provisions must be accredited by NOKUT.

## Degrees and qualifications

### NQF (EQF) Level 6: Bachelor (1st cycle)

**Bachelor's degree** is awarded after three years of full-time study (180 ECTS). Some bachelor's degrees, in the field of music and performing arts, consist of four-year bachelor's programmes (240 ECTS).

Teacher education for primary and lower secondary school, years 1-7 and years 5-10 has been a four-year professional programme (240 ECTS) prior to its reform on 1 January 2017, when it became a five-year integrated master's degree.

**University college graduate** (*høyskolekandidat*) is a two-year degree (120 ECTS), a short cycle degree within the first cycle. Holders of this degree may in some cases continue their studies in a bachelor programme and thus obtain a bachelor's degree.

### NQF (EQF) Level 7: Master (2nd cycle)

**Master's degree** is normally obtained after two years of study (120 ECTS), following the completion of a bachelor's degree. A master's degree programme includes independent work (normally a thesis) of between 30 and 60 ECTS.

**Experience-based master's degree** has a scope of 90 or 120 ECTS (including independent work of at least 20 ECTS).

**Integrated master's degree** is a five-year study programme (300 ECTS) which results in a master's degree, with no intermediate bachelor's degree. An exception is

the Master of Architecture programme at the Oslo School of Architecture and Design, which has a scope of 330 ECTS.

In the fields of medicine, psychology and theology, **professionally oriented degrees/qualifications** of six years' duration (360 ECTS) are awarded; in the field of veterinary science - after 5 ½-6 years. They have retained the title/degree *candidata/candidatus* from the former degree system.

### NQF (EQF) Level 8: Doctoral degree (3rd cycle)

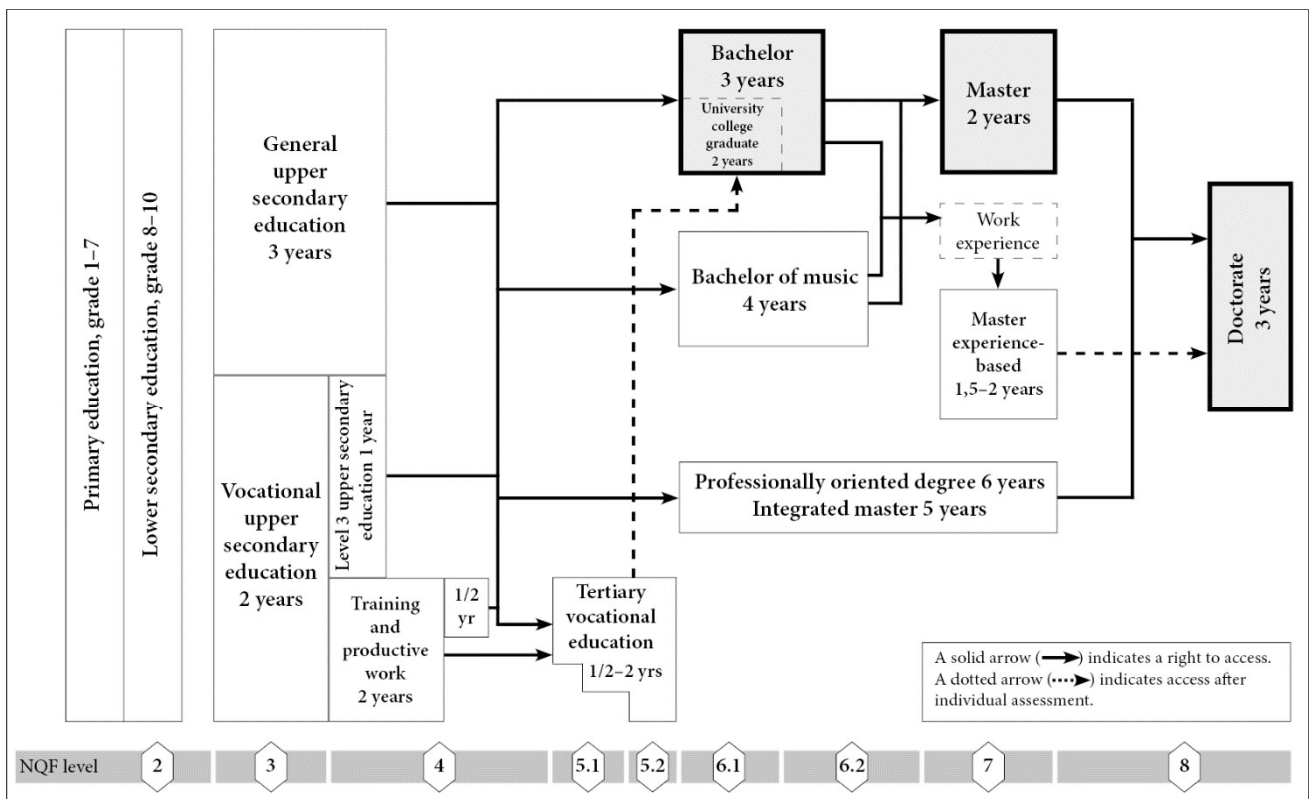
**Philosophiae doctor** (*ph.d.*), is awarded after three years of study, following the completion of a master's degree or a five to six-year professionally oriented degree/qualification.

**Doctor philosophiae** (*dr. philos.*) is conferred on graduates who have qualified for a doctoral degree on their own, without formal research training.

**Diploma, artistic development programme** (*kunstnerisk utviklingsprogram*) is a three-year programme in the field of creative and performing arts. Replaced on 1 February 2018 by the new doctoral degree *ph.d. i kunstnerisk utviklingsarbeid*.

Descriptions of the educational qualifications are given in the Norwegian Qualifications Framework for Lifelong Learning at [www.nokut.no/nkr](http://www.nokut.no/nkr)

## The Norwegian Education System



NOKUT, April 2018