

21.03.2021

Holmberg Daniel Rickard  
Rönnvågen 42-44 B65  
00270 HELSINKI

014738452

Date of enrolment

14.05.1997

01.08.2016

### PRIMARY STUDY RIGHT

Degree objective Master of Science (science)  
Decree Government Decree (794/2004) on University Degrees  
Degree programme Master's Programme in Data Science  
Degree Language English

Valid: 01.08.2016 - 31.07.2023 Date of commencement 18.12.2019

### DEGREES AND UPGRADING OF QUALIFICATIONS

		Cr	Date
00345	Bachelor of Science	198,00	17.12.2019

### COMPLETED CREDITS

Course		Cr	Grade	Language	Date
<b>H50</b>	<b>Faculty of Science</b>				
00345	Bachelor of Science	198,00	Pass		17.12.2019
FYS1200	Physics, Basic Studies	25,00	5		30.05.2017
530140	Laboratory Exercises in Basic Studies of Physics	5,00	4	Swedish	30.05.2017
530291	Interactions and Bodies	5,00	5	Swedish	25.10.2016
530292	Matter and Interactions	5,00	5	Swedish	19.12.2016
530293	Electromagnetism	5,00	5	Swedish	06.03.2017
530294	Radiation Fields and Photons	5,00	5	Swedish	08.05.2017
FYS1300	Mathematical and Computational Methods, Study Module	26,00	5		07.06.2019
FYS1014	Statistical Analysis of Observations	5,00	3	English	07.06.2019
53398	Scientific Computing I	5,00	5	Finnish	08.05.2017
53704	Mathematics for Physicists I	8,00	5	Swedish	26.10.2016
53705	Mathematics for Physicists II	8,00	5	Swedish	19.12.2016
FYS2600	Fysik, ämnesstudier	88,00	4		09.05.2019
FYS2007	Measurement Methods in Physics	5,00	3	Swedish	24.10.2017
FYS2008	Physics' Intermediate Studies Laboratory Exercises I	5,00	5	Finnish	25.06.2018
FYS2009	Physics' Intermediate Studies Laboratory Exercises II	5,00	4	Swedish	04.06.2018
FYS2010	Mathematical Methods of Physics Ia	5,00	3	Finnish	24.10.2017
FYS2011	Mathematical Methods of Physics Ib	5,00	5	Finnish	21.12.2017
FYS2012	Mathematical Methods of Physics IIa	5,00	4	Finnish	27.03.2018
FYS2014	Analytical Mechanics	5,00	4	Finnish	12.12.2018
FYS2016	Electrodynamics I	5,00	3	English	05.03.2019
FYS2021	Basics of Thermophysics	5,00	5	Swedish	30.10.2017

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Course		Cr	Grade	Language	Date
FYS2022	Thermodynamic Potentials	5,00	4	Swedish	15.12.2017
FYS2026	Kvantfysikens tillämpningar II - Det fasta tillståndet och elementarpartiklar	5,00	4	Swedish	25.10.2018
FYS2079	Materialfysikens grunder	5,00	4	Swedish	19.03.2018
FYS2082	Electronics I	5,00	5	Swedish	19.12.2017
FYS2085	Scientific Computing II	5,00	5	English	15.12.2017
FYS2090	Maturity Test BSc	0,00	Pass	Swedish	09.05.2019
530000	Fundamentals of Theory of Relativity	4,00	4	Finnish	10.05.2017
530297	Kvantfysikens grunder	5,00	5	Swedish	10.03.2017
530298	Atomer och molekyler	3,00	3	Swedish	05.06.2017
FYS2070	Kandidatavhandling, fysik studieinriktning Potentialmodeller vid simulering av Fe-Cr	6,00	4	Swedish	08.05.2019
FYS4000	Other Studies	42,00	Pass		17.12.2019
A57043	Open uni: Linear Algebra and Matrices I	5,00	5	Finnish	16.06.2017
A57047	Open uni: Linear Algebra and Matrices II	5,00	3	Finnish	27.09.2017
FYS4002	Working Life Skills I - Problem Solving Skills in a Group	1,00	Pass	Finnish	26.05.2019
FYS4003	Working Life Skills II - Academic Writing	1,00	4	Swedish	17.12.2019
FYS4004	Opiskelutaidot I	1,00	Pass	Swedish	25.09.2019
FYS4005	Opiskelutaidot II	1,00	Pass	Finnish	03.09.2019
FYS4006	Mother Tongue (Bachelor's Seminar)	3,00	5	Swedish	29.11.2019
FYS4008	Practical Training (B.Sc.)	5,00	Pass	Swedish	06.08.2019
	Helsingin yliopiston kiihdytinlaboratorio, ohjaaja Antti Kuronen.				
KK-ENMALU	Academic and Professional Communication in English 1 & 2 (CEFR B2)	4,00	Pass	English	03.05.2018
KK-FINMU	Oral Skills in the Second National Language, Finnish (CEFR B1)	2,00	G	Finnish	14.05.2019
KK-FINSK	Written Skills in the Second National Language, Finnish (CEFR B1)	1,00	SAT	Finnish	26.04.2019
50099	Tutortaining and Tutoring	2,00	Pass	Finnish	04.12.2017
530108	Introduction to Physical Sciences	3,00	Pass	Swedish	16.12.2016
530148	ICT Driving Licence	3,00	Pass	Finnish	03.10.2016
530348	Naturvetenskaper nu	2,00	Pass	Swedish	19.05.2017
53905	Universe Now	3,00	4	Swedish	03.05.2017
TKT9	Computer Science, Study Module	17,00	4		23.05.2019
AYTKT21018	Open uni: The Elements of AI: Introduction to AI	2,00	Pass	English	21.06.2018
A581325	Open uni: Introduction to Programming	5,00	5	Finnish	14.08.2017
A582103	Open uni:: Advanced Course in Programming	5,00	3	Finnish	11.09.2017
TKT21008	Programming in C	5,00	4	English	23.05.2019

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Course		Cr	Grade	Language	Date
<b>Unincorporated studies</b>					
<b>H70</b>	<b>Faculty of Social Sciences</b>				
VALT-601M	Career-related Project	5,00	Pass	English	14.09.2020
<b>H906</b>	<b>Language Centre</b>				
992210	German for beginners 2 (CEFR A1)	4,00	Pass	German	21.04.2020
992214	German for Beginners 1 through Blended Learning	3,00	Pass	German	23.04.2020
993734	Academic Writing for Students in Master's Degree Programmes 1 (CEFR C1)	2,00	Pass	English	16.10.2019
993735	Academic Writing for Students in Master's Degree Programmes 2 (CEFR C1)	2,00	Pass	English	20.05.2020
<b>H930</b>	<b>Open University</b>				
AYCSM90004en	Open uni: Data Analysis with Python	5,00	5	English	17.09.2019
AYTKT21009	Open uni: Full Stack Web Development	5,00	2	Finnish	10.01.2020
AYTKT21010	Open uni: Full Stack Web Development Project	7,00	Pass	Finnish	09.09.2020
AYTKT21025en	Open uni: DevOps with Docker	3,00	Pass	English	31.10.2019
<b>500-K002</b>	<b>Bachelor's Programme in Physical Sciences</b>				
FYS2013	Mathematical Methods of Physics IIb	5,00	1	Finnish	01.06.2018
FYS2018	Quantum Mechanics I	10,00	2	English	15.01.2019
FYS4020	Naturvetenskaper nu II	2,00	Pass	Swedish	31.05.2018
<b>500-M004</b>	<b>Master's Programme in Particle Physics and Astrophysical Sciences</b>				
PAP332	Introduction to Particle Physics I	5,00	5	English	19.10.2020
<b>500-M005</b>	<b>Master's Programme in Materials Research</b>				
MATR304	Materialfysik	5,00	4	Swedish	11.05.2018
MATR322	Scientific Computing III	10,00	4	English	10.06.2019
MATR369	Industrial Physics	5,00	Pass	Finnish	02.05.2019
<b>500-M009</b>	<b>Master's Programme in Computer Science</b>				
CSM13501	Shell Scripting	3,00	Pass	English	21.12.2018
<b>500-M010</b>	<b>Master's Programme in Data Science</b>				
DATA11001	Introduction to Data Science	5,00	5	English	22.10.2019

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Course		Cr	Grade	Language	Date
DATA11002	Introduction to Machine Learning	5,00	3	English	17.12.2019
DATA11003	Distributed Data Infrastructures	5,00	3	English	15.12.2019
DATA11004	Data Science Project I	5,00	5	English	12.05.2020
DATA11006	Statistical Data Science	5,00	3	English	19.12.2019
DATA11101	Orientation to Data Science Studies	1,00	Pass	English	20.10.2019
DATA12001	Advanced Course in Machine Learning	5,00	4	English	06.05.2020
DATA15001	Introduction to Artificial Intelligence	5,00	4	English	24.10.2019
DATA20022	Seminar on Machine Learning with Distributed Data	5,00	5	English	30.04.2020

Total number of credits 320,00  
Total number of transferred credits out of all credits 0,00

The language of completed studies has been registered at the University of Helsinki as of 1 August 2011.

Studies have been completed in the following languages

Finnish 86,00 cr  
Swedish 115,00 cr  
English 112,00 cr  
German 7,00 cr

Credits (Cr) correspond to the ECTS (European Credit Transfer System) credits (1 Cr = 1 ECTS Cr).  
Credit units (Cu) are the credits (study weeks) of the old Finnish system.

**GRADES USED AT THE UNIVERSITY OF HELSINKI**

Completed studies and Bachelor's and Master's theses:  
5 (excellent), 4 (very good), 3 (good), 2 (satisfactory), 1 (passable)

Old Master's theses, doctoral dissertations and Licentiate theses:  
L (Laudatur), ECLA (Eximia cum laude approbatur), MCLA (Magna cum laude approbatur), CL (Cum laude approbatur), NSLA (Non sine laude approbatur), LUB (Lubenter approbatur), A (Approbatur)

Doctoral dissertations and Licentiate theses:  
Pass, PasD (Pass with distinction)

Written and oral proficiency in the second national language of Finland:  
G (good), SAT (satisfactory)

Practical training, skills courses and degrees:  
Pass

The grading scale at the University of Helsinki is not a proportionate scale and does not therefore fully correspond to the ECTS grading scale.