

Academic year 2026-27		Changes possible!					
Master's programme in	Course code	Course name	Scope	Period	Language of instruction	Mode of teaching	Additional information on the target groups
Chemistry	KEM311	Basic radiochemistry exercises	5 cr	2. period	English	contact teaching	–
Chemistry	KEM313	Nuclear spectrometry	5 cr	3. period	English	contact teaching	–
Chemistry	KEM314	Advanced radiochemistry exercises, Radiopharmaceutical chemistry	3 cr	4. period	English	contact teaching	–
Chemistry	KEM314	Advanced radiochemistry exercises, Chemistry and analysis of radionuclides	3 cr	4. period	English	contact teaching	–
Chemistry	KEM314	Advanced radiochemistry exercises, Nuclear spectrometry	2 cr	4. period	English	contact teaching	–
Chemistry	KEM316	Chemistry and analysis of radionuclides	5 cr	3. period	English	contact teaching	–
Chemistry	KEM317	Radiopharmaceutical chemistry	5 cr	3. period	English	contact teaching	–
Chemistry	KEM321	Structure and reactivity - organic reactions	5 cr	1. period	English	contact teaching	–
Chemistry	KEM322	Synthesis methods	5 cr	3. period	English	contact teaching	–
Chemistry	KEM323	Design of synthesis	5 cr	4. period	English	contact teaching	–
Chemistry	KEM324	Organometallic chemistry	5 cr	3. period	English	contact teaching	–
Chemistry	KEM325	Synthetic chemistry labworks, p 1	5 cr	1. period	English	contact teaching	CHEMS students are prioritised
Chemistry	KEM326	Synthetic biocatalysis	5 cr	2. period	English	contact teaching	–
Chemistry	KEM331	Separation techniques	5 cr	1. period	English	contact teaching	–
Chemistry	KEM332	Sampling and sample preparation	5 cr	2. period	English	contact teaching	–
Chemistry	KEM333	Analytical chemistry laboratory work, p 1	5 cr	1. period	English	contact teaching	–
Chemistry	KEM333	Analytical chemistry laboratory work, p 4	5 cr	4. period	English	contact teaching	–
Chemistry	KEM334	Mass spectrometry	5 cr	3. period	English	contact teaching	–
Chemistry	KEM335	Portable analytical instruments and sensors	5 cr	1. period	English	contact teaching	–
Chemistry	KEM336	NMR spectroscopy 1	3 - 5 cr	3.-4. period	English	contact teaching	–
Chemistry	KEM342	Molecular modelling	5 cr	3.-4. period	English	contact teaching	–
Chemistry	KEM351	Environmental radioactivity	5 cr	3.-4. period	English	contact teaching	–
Chemistry	KEM357	Determination of metals	5 cr	1. period	English	contact teaching	–
Chemistry	KEM358	Quality assurance in analytics	5 cr	2. period	English	contact teaching	–
Chemistry	KEM362	Advanced course in inorganic chemistry	5 cr	2. period	English	contact teaching	–
Chemistry	KEM364	Green chemistry: renewable materials and sustainable energy	5 cr	1. period	English	contact teaching	–
Chemistry	KEM365	Laser spectroscopy	5 cr	1.-2. period	English	contact teaching	–
Chemistry	KEM369	Molecular electronic structure	5 cr	2. period	English	contact teaching	–
Chemistry	KEM371	Combustion chemistry	5 cr	1. period	English	contact teaching	–
Chemistry	KEM372	Laser spectroscopy laboratory practicum	5 cr	1.-2. period	English	contact teaching	–
Chemistry	KEM378	Molecular symmetry and group theory	5 cr	2. period	English	contact teaching	–
Chemistry	KEM381	Programming projects in molecular modelling	5 cr	3.-4. period	English	contact teaching	–
Chemistry	KEM385	Circular economy in chemical industry	5 cr	3. period	English	contact teaching	–
Chemistry	KEM386	Applied LC-MS method development and validation	5 cr	4.-5. period	English	contact teaching	–
Chemistry	KEM411	Chemicals and legislation	5 cr	1.-4. period	English	online teaching (not time-bound)	–
Chemistry	KEM416	Master's seminar, fall	5 cr	1.-2. period	English	contact teaching	–
							For all students who have not done our BSc level Basic labworks in chemistry course and the safety exam within it. Should be done before lab courses in the master's programme.
Chemistry	KEM417	Laboratory safety	0 cr	1.-4. period	English, Finnish	online teaching (not time-bound)	–
Chemistry	KEM551	Modern Main Group Chemistry	3 cr	1. period	English	contact teaching	–
Computer Science	CSM12101	Design and Analysis of Algorithms	5 cr	1. period	English	contact teaching	–
Computer Science	CSM13109	Networking Technologies	5 cr	1. period	English	contact teaching	–
Computer Science	CSM14101	Software Architectures	5 cr	1. period	English	both contact and distance teaching	–
Computer Science	CSM11006	Computer Science Project	5 cr	1.-2. period	English	contact teaching	–
Computer Science	CSM14303	Seminar on Big Data Management	5 cr	1.-2. period	English	distance teaching (time-bound)	–
Computer Science	CSM14107	Seminar in Empirical Software Engineering	5 cr	1.-2. period	English	contact teaching	–
Computer Science	CSM13001	Distributed Systems	5 cr	2. period	English	contact teaching	–
Computer Science	CSM12102	String Processing Algorithms	5 cr	2. period	English	contact teaching	–
Computer Science	CSM14103	Software Architecture Project	3 cr	2. period	English	both contact and distance teaching	–
Computer Science	CSM13401	Human Computer Interaction	5 cr	2. period	English	contact teaching	–
Computer Science	CSM12107	Combinatorial Optimisation	5 cr	2. period	English	contact teaching	–
Computer Science	CSM12106	Approximation Algorithms	5 cr	3. period	English	contact teaching	–
Computer Science	CSM14204	Compilers	5 cr	3. period	English	both contact and distance teaching	–
Computer Science	CSM13183	Seminar on the Internet of Things	5 cr	3.-4. period	English	contact teaching	–

Computer Science	CSM132821	Seminar: Advanced Topics in Networking	5 cr	3.-4. period	English	contact teaching	–
Computer Science	CSM14124	Seminar on Algorithms	5 cr	3.-4. period	English	contact teaching	–
Computer Science	CSM14302	Transaction Management and Query Optimisation	5 cr	4. period	English	distance teaching (time-bound)	–
Computer Science	CSM14120	Software Evolution and Reliability	5 cr	4. period	English	contact teaching	–
Computer Science	CSM14213	Smart Modeling	5 cr	4. period	English	contact teaching	–
Computer Science	CSM14121	Seminar in Software Quality	5 cr	4.-5. period	English	contact teaching	–
Computer Science	CSM131051	Introduction to the Internet of Things - MOOC	4 cr	open all year round	English	online teaching (not time-bound)	–
Computer Science	CSM13111	Developing the Artificial Intelligence of Things - MOOC	5 cr	open all year round	English	online teaching (not time-bound)	–
Computer Science	CSM132041	Cyber Security Base: Advanced Topics	3 cr	open all year round	English	online teaching (not time-bound)	–
Computer Science	CSM132042	Cyber Security Base: Course Project II	1 cr	open all year round	English	online teaching (not time-bound)	–
Computer Science	CSM132043	Cyber Security Base: Capture The Flag	1 cr	open all year round	English	online teaching (not time-bound)	–
Computer Science	CSM141081	Full Stack Web Development	5 cr	open all year round	English, Finnish	online teaching (not time-bound)	–
Computer Science	CSM141082	Full Stack Web Development, extension 1	1 cr	open all year round	English, Finnish	online teaching (not time-bound)	–
Computer Science	CSM141083	Full Stack Web Development, extension 2	1 cr	open all year round	English, Finnish	online teaching (not time-bound)	–
Computer Science	CSM141084	Full Stack Web Development: Containers	1 cr	open all year round	English, Finnish	online teaching (not time-bound)	–
Computer Science	CSM14110	Full Stack Web Development: TypeScript	1 cr	open all year round	English, Finnish	online teaching (not time-bound)	–
Computer Science	CSM14111	Full Stack Web Development: React Native	2 cr	open all year round	English, Finnish	online teaching (not time-bound)	–
Computer Science	CSM14112	Full Stack Web Development: Continuous Integration	1 cr	open all year round	English, Finnish	online teaching (not time-bound)	–
Computer Science	CSM14113	Full Stack Web Development: GraphQL	1 cr	open all year round	English, Finnish	online teaching (not time-bound)	–
Computer Science	CSM14114	Full Stack Web Development: Relational Databases	1 cr	open all year round	English, Finnish	online teaching (not time-bound)	–
Computer Science	CSM141091	Full Stack Web Development Project	5 cr	open all year round	English, Finnish	online teaching (not time-bound)	–
Computer Science	CSM141092	Full Stack Web Development Project	7 cr	open all year round	English, Finnish	online teaching (not time-bound)	–
Computer Science	CSM141093	Full Stack Web Development Project	10 cr	open all year round	English, Finnish	online teaching (not time-bound)	–
Computer Science	CSM14201	Software Testing (self-study)	5 cr	open all year round	English	online teaching (not time-bound)	–
Computer Science	CSM14123	Algorithms for Problem Solving	5 cr	open all year round	English	online teaching (not time-bound)	–
Computer Science	CSM131052	Introduction to the Internet of Things - MOOC EXAM	1 cr		English	online teaching (not time-bound)	–
Data Science	DATA11008	Engineering of Machine Learning Systems	5 cr	2. period	English	contact teaching	–
Data Science	DATA20019	Trustworthy Machine Learning	5 cr	2. period	English	contact teaching	–
Data Science	DATA20072	Seminar in Human Centered Data Science	5 cr	2. period	English	contact teaching	–
Data Science	DATA20071	Gaussian Processes for Machine Learning	3 cr	2. period	English	contact teaching	–
Data Science	DATA11009	Practical Machine Learning	5 cr	3. period	English	contact teaching	–
Data Science	DATA16001	Network Analysis	5 cr	3. period	English	both contact and distance teaching	–
Data Science	DATA20047	Probabilistic Cognitive Modelling	5 cr	3. period	English	contact teaching	–
Data Science	DATA20021	Information Retrieval	5 cr	3. period	English	contact teaching	–
Data Science	DATA12003	Sustainability in Computer and Data Sciences I	2 cr	3. period	English	contact teaching	–
Data Science	DATA12004	Sustainability in Computer and Data Sciences II	3 cr	3. period	English	contact teaching	–
Data Science	DATA11011	Machine Learning 2	5 cr	4. period	English	contact teaching	–
Data Science	DATA20046	Neural Networks and Deep Learning	5 cr	4. period	English	contact teaching	–
Data Science	DATA15003	Interactive Data Visualization	5 cr	4. period	English	both contact and distance teaching	–
Data Science	DATA20069	Data Science for the Internet of Things	5 cr	4. period	English	contact teaching	–
Data Science	DATA20041	AI in Society: Introduction	1,5 cr	open all year round	English	online teaching (not time-bound)	–
Data Science	DATA20042	AI in Society: AI and Discrimination	0,5 cr	open all year round	English	online teaching (not time-bound)	–
Data Science	DATA20049	AI in Society: AI, Justice and Security	0,5 cr	open all year round	English	online teaching (not time-bound)	–
Data Science	DATA20050	AI in Society: AI and Democracy	0,5 cr	open all year round	English	online teaching (not time-bound)	–
Data Science	DATA20058	AI in Society: AI and One Health	0,5 cr	open all year round	English	online teaching (not time-bound)	–
Data Science	DATA20059	AI in Society: AI and Disinformation in the Digital Age	0,5 cr	open all year round	English	online teaching (not time-bound)	–
Data Science	DATA20068	AI in Society: AI and Privacy	0,5 cr	open all year round	English	online teaching (not time-bound)	–
Data Science	DATA20060	Computational Affective Modelling I	2 cr	open all year round	English	online teaching (not time-bound)	–
Data Science	DATA20061	Computational Affective Modelling II	3 cr	open all year round	English	online teaching (not time-bound)	–
Data Science	DATA12002	Probabilistic Graphical Models	5 cr	open all year round	English	online teaching (not time-bound)	–
Data Science	DATA20067	Data Science for Monitoring Aquatic Ecosystems	5 cr	open all year round	English	online teaching (not time-bound)	–
Geography	GEOG-316	Political geographies of urbanization and planning	5 cr	2. period	English	contact teaching	Only for programme's own exchange students
Geography	GEOG-322	Advanced remote sensing of environment	5 cr	4. period	English	contact teaching	Only for programme's own exchange students
Geography	GEOG-326	Quantitative research of accessibility and mobility of people	5 cr	2. period	English	contact teaching	Only for programme's own exchange students
Geography	GEOG-327	Spatial conservation planning	5 cr	4. period	English	contact teaching	Only for programme's own exchange students
Geography	GEOG-329-2	Automating GIS-processes in geography	5 cr	2. period	English	contact teaching	Only for programme's own exchange students
Geography	GEOG-330	Taita field course	5 cr	1. period	English	contact teaching	Only for programme's own exchange students

Geography	GEOG-340	Introduction to conservation geography	5 cr	1. period	English	contact teaching	Only for programme's own exchange students
Geography	GEOG-341	Geography of megatrends in the global south	5 cr	4. period	English	contact teaching	Only for programme's own exchange students
Geography	GEOG-348	Area-based conservation	5 cr	3. period	English	contact teaching	Only for programme's own exchange students
Geography	GEOG-349	Cartographic visualization in GIS	5 cr	4. period	English	contact teaching	Only for programme's own exchange students
Geography	GEOG-352	Geographies of young people and education	5 cr	1. period	English	contact teaching	Only for programme's own exchange students
Geography	GEOG-353	High-latitude landscapes and ecosystems field course	5 cr	May intensive	English, Finnish	contact teaching	Only for programme's own exchange students
Geography	GEOG-354	Urban geography: Growth, housing and planning	5 cr	1. period	English	both contact and distance teaching	Only for programme's own exchange students
Geography	GEOG-356	Conservation readings	5 cr	1.8.2026-31.7.2027	English	essay	Only for programme's own exchange students
Geography	GEOG-357	Political geographies of regional development: book exam	5 cr	1.8.2026-31.7.2027	English	Examinarium exam	Only for programme's own exchange students
Geography	GEOG-358	Literature in remote sensing	5 cr	1.8.2026-31.7.2027	English	Examinarium exam	Only for programme's own exchange students
Geography	GEOG-360	Remote sensing of cryosphere	5 cr	2. period	English	contact teaching	Only for programme's own exchange students
Geography	GEOG-363	Sustainability readings in geography	5 cr	1.8.2026-31.7.2027	English	Examinarium exam	Only for programme's own exchange students
Geography	GEOG-364	Geographies of sustainability policies	5 cr	3. period	English	contact teaching	Only for programme's own exchange students
Geography	GEOG-365	Strategic spatial planning	5 cr	2. period	English	contact teaching	Only for programme's own exchange students
Geography	GEOG-367	Urban analytics and spatial statistics	5 cr	4. period	English	both contact and distance teaching	Only for programme's own exchange students
Geography	GEOG-408	Geographical scientific conference participation	2 cr	1.8.2026 - 31.7.2027	Finnish, Swedish, English	independent work	Only for programme's own exchange students
Geography	GEOG-G302	Introduction to remote sensing of environment	5 cr	1. period	English	contact teaching	Only for programme's own exchange students
Geography	GEOG-G306	Quantitative methods of data analysis in geography	5 cr	3. period	English	contact teaching	Only for programme's own exchange students
Geography	GEOG-H301	Qualitative research techniques and analysis in human geography	5 cr	2. period	English	contact teaching	Only for programme's own exchange students
Geography	GEOG-H302	Quantitative research techniques and analysis in human geography	5 cr	1. period	English	both contact and distance teaching	Only for programme's own exchange students
Geography	GEOG-H303	Thesis writing and argumentation in human geography	5 cr	4. period	English, Finnish	contact teaching	Only for programme's own exchange students
Geography	GEOG-H388	Human geography master 's thesis seminar	5 cr	1.-2. period	English, Finnish	contact teaching	Only for programme's own exchange students
Geography	GEOG-P301	Spatial aquatic research	5 cr	1. period	English	contact teaching	Only for programme's own exchange students
Geology and Geophysics	GEOM2002	All About Teeth	5 cr	May intensive period	English	contact teaching	-
Geology and Geophysics	GEOM2003	Applied Geophysics	5 cr	2. period	English	contact teaching	-
Geology and Geophysics	GEOM2006	Earthquake Seismology	5 cr	4. period	English	contact teaching	-
Geology and Geophysics	GEOM2007	Environmental Geochemistry	5 cr	1. - 2. period	English	contact teaching	-
Geology and Geophysics	GEOM2008	Field course of solid earth geophysics	5 cr	1. period	English	contact teaching	-
							Highly recommended for palaeontology master's students and exchange students at the Department of Geosciences and Geography
Geology and Geophysics	GEOM2010	Fossil recognition and introduction to invertebrate palaeontology	5 cr	1. period	English	contact teaching	
Geology and Geophysics	GEOM2012	Geodynamics	5 cr	1. period	English	contact and distance teaching	-
Geology and Geophysics	GEOM2015	Ground penetrating radar	5 cr	3. period	English	contact teaching	-
Geology and Geophysics	GEOM2017	Pohjavesivarojen hallinta (Groundwater resources and management)	5 cr	3. period	Finnish and English	contact teaching	-
Geology and Geophysics	GEOM2020	Introduction to hominin ecology and evolution	5 cr	3. period	English/Finnish	contact teaching	-
Geology and Geophysics	GEOM2023	Isotope Geochemistry	5 cr	1. period	English	contact teaching	-
Geology and Geophysics	GEOM2024	Life on the Baltic Continent - A Palaeozoic history. Field course and seminar.	5 cr	May intensive period	English	contact teaching	-
Geology and Geophysics	GEOM2025	Lithosphere structure and dynamics	5 cr	1.-2. period	English	contact teaching	-
Geology and Geophysics	GEOM2026	Mammalian ecomorphology and introduction to vertebrate paleontology	5 cr	1. period	English	contact teaching	-
Geology and Geophysics	GEOM2027	Metamorphic geology	5 cr	2. period	English	contact teaching	-
Geology and Geophysics	GEOM2031	Pollen analysis	5 cr	3. period	English	contact teaching	-
Geology and Geophysics	GEOM2034	Quantitative hydrogeology and flow modeling	5 cr	2. period	Finnish and English	contact and distance teaching	-
Geology and Geophysics	GEOM2038	Solid Earth geochemical methods	5 cr	2. period	English	contact teaching	-
Geology and Geophysics	GEOM2039	Environmental isotopes	5 cr	4. period	English, Finnish	contact teaching	-
Geology and Geophysics	GEOM2041	Terrestrial paleoenvironments during the Cenozoic	5 cr	4. period	English	contact teaching	-
Geology and Geophysics	GEOM2042	Theory of Seismic Waves	5 cr	2. period	English	contact teaching	-
Geology and Geophysics	GEOM2046	Satellite positioning	5 cr	1.-2. period	English	contact teaching	-
Geology and Geophysics	GEOM2048	Applied hydrogeochemistry	5 cr	1. period	English, Finnish	contact teaching	-
Geology and Geophysics	GEOM2049	Hydrogeology Field Course	5 cr	1. period	Finnish and English	contact and distance teaching	-
Geology and Geophysics	GEOM2051	3D Geological modeling	5 cr	4. period	English	contact teaching	-
Geology and Geophysics	GEOM2059	Environmental magnetism	5 cr	1. period	English	contact teaching	-
Geology and Geophysics	GEOM2062	Advanced field course in petrology and structural geology	5 cr	4. period	English	contact and distance teaching	-
Geology and Geophysics	GEOM2064	Advanced hydrogeology	5 cr	4. period	English	contact teaching	-
Geology and Geophysics	GEOM2067	Methods in paleoenvironmental reconstructions	5 cr	2. period	English	contact teaching	-
Geology and Geophysics	GEOM2070	Basics of ore mineral systems	5 cr	4. period	English	contact teaching	-
Geology and Geophysics	GEOM2071	Advanced critical mineral systems	5 cr	May intensive period	English	contact teaching	-

Geology and Geophysics	GEOM2074	Theory of electromagnetic geophysical methods	5 cr	3.-4. period	English	contact teaching	–
Life Science Informatics	LSI30009	Master's thesis seminar in Life Science Informatics	5 cr	1.-2. period	English	contact teaching	–
Life Science Informatics	LSI31007	Algorithms in genome analysis	5 cr	3. period	English	including both contact and distance teaching	–
Life Science Informatics	LSI31008	Elements of bioinformatics	5 cr	1.-2. period	English	including both contact and distance teaching	–
Life Science Informatics	LSI33002	Evolution and the theory of games I	5 cr	1. period	English	contact teaching	–
Life Science Informatics	LSI33006	Introduction to mathematical ecology I	5 cr	1. period	English	contact teaching	–
Life Science Informatics	LSI33007	Introduction to mathematical ecology II	5 cr	2. period	English	contact teaching	–
Life Science Informatics	LSI33008	Evolution and the theory of games II	5 cr	2. period	English	contact teaching	–
Life Science Informatics	LSI34001	Topics in biostatistics	5 cr	1. period	English	contact teaching	Limited to 20 students to ensure hands-on
Life Science Informatics	LSI34002	Genome-wide association studies	5 cr	4. period	English	contact teaching	tutorial to be effective in student pairs.
Life Science Informatics	LSI34005	Statistical epidemiology	5 cr	3. period	English	contact teaching	–
Life Science Informatics	LSI34008	Experimental and monitoring design in ecology	5 cr	3. period	English	contact teaching	–
Life Science Informatics	LSI34010	Introduction to spatial statistics	5 cr	4. period	English	contact teaching	–
Life Science Informatics	LSI35002	Bayesian Data Analysis	5 cr	2. period	English	contact teaching	–
Life Science Informatics	LSI36001	Clinical data mining	5 cr	2. period	English	contact teaching	–
Life Science Informatics	LSI6003	Introduction to Systems Biology	5 cr	4. period	English	contact teaching	–
Materials Research	MATR302	Materials Characterization	5 cr	2. period	English	contact teaching	–
Materials Research	MATR3031	Solid state physics: crystal structure and atomic dynamics	5 cr	3. period	English	contact teaching	–
Materials Research	MATR3032	Solid state physics: electronic structure and properties	5 cr	4. period	English	contact teaching	–
Materials Research	MATR306	Materials Physics	5 cr	1. period	English	contact teaching	–
Materials Research	MATR307	Solid State Continuum Mechanics I	5 cr	3. period	English	contact teaching	–
Materials Research	MATR308	Surface Physics	5 cr	2. period	English	contact teaching	–
Materials Research	MATR3082	Physics of thin films and heterostructures	5 cr	3. period	English	contact teaching	–
Materials Research	MATR309	Radiation Protection	5 cr	3. period	English	contact teaching	–
Materials Research	MATR310	Laboratory Exercises	10 cr	1.-4. period	English	contact teaching	–
Materials Research	MATR3101	Physics of semiconductor devices	5 cr	3.-4. period	English	contact teaching	–
Materials Research	MATR311	Synchrotron light in materials science	5 cr	3. period	English	contact teaching	–
Materials Research	MATR318	Solid State Continuum Mechanics II	5 cr	4. period	English	contact teaching	–
Materials Research	MATR3221	Numerical Methods in Scientific Computing I	5 cr	3. period	English	contact teaching	–
Materials Research	MATR3222	Numerical Methods in Scientific Computing II	5 cr	4. period	English	contact teaching	–
Materials Research	MATR323	Basics of Monte Carlo Simulations	5 cr	3. period	English	contact teaching	–
Materials Research	MATR331	Introduction to Biological Physics	5 cr	1. period	English	including both contact and distance teaching	–
Materials Research	MATR332	Physics of Biological Systems	5 cr	3. period	English	including both contact and distance teaching	–
Materials Research	MATR338	Ultrasonics	10 cr	3.-4. period	English	contact teaching	–
Materials Research	MATR342	Determination of Crystal and Molecular Structures	5 cr	3. period	English	contact teaching	–
Materials Research	MATR343	Microscope techniques in materials characterization	5 cr	4. period	English	contact teaching	–
Materials Research	MATR344	Vacuum technology	5 cr	2. period	English	contact teaching	–
Materials Research	MATR345	Polymer chemistry 1	5 cr	1. period	English	contact teaching	–
Materials Research	MATR346	Polymer Physics	5 cr	3. period	English	contact teaching	–
Materials Research	MATR347	Polymer Chemistry 2: Advanced synthesis and functional materials	5 cr	2. period	English	contact teaching	–
Materials Research	MATR348	Laboratory Practicum, p 1-2	5 cr	1.-2. period	English	contact teaching	–
Materials Research	MATR348	Laboratory Practicum, p 3-4	5 cr	3.-4. period	English	contact teaching	–
Materials Research	MATR352	Light Scattering	5 cr	May intensive period	English	contact teaching	–
Materials Research	MATR353	Polymer characterization: Spectroscopy and thermal methods	5 cr	4. period	English	contact teaching	–
Materials Research	MATR356	Polymers in Medicine	5 cr	3. period	English	contact teaching	–
Materials Research	MATR358	Inorganic Materials Chemistry	5 cr	1. period	English	contact teaching	–
Materials Research	MATR365	Radiation damage in materials	5 cr	1.-4. period	English	online teaching (not time-bound)	–
Materials Research	MATR369	Industrial Physics	5 cr	4. period	English	distance teaching (time-bound)	–
Materials Research	MATR372	Nanocatalysis	5 cr	3. period	English	contact teaching	–
Materials Research	MATR377	Photonics	10 cr	3.-4. period	English	contact teaching	–
Materials Research	MATR378	Finite element modelling for physicists I	5 cr	1. period	English	contact teaching	–
Materials Research	MATR379	Finite element modelling for physicists II	5 cr	2. period	English	contact teaching	–
Materials Research	MATR382	Methods in Molecular Biophysics	5 - 10 cr	3.-4. period	English	including both contact and distance teaching	–
Materials Research	MATR384	Polyelectrolytes and Colloids	5 cr	1. period	English	contact teaching	–
Materials Research	MATR385	Ion beam methods for materials characterization	5 cr	3.-4. period	English	contact teaching	–
Materials Research	MATR387	Materials Chemistry and Physics for Sustainability	5 cr	3. period	English	contact teaching	–

Materials Research	MATR388	Additive Manufacturing: Techniques, Chemistry, Materials and Applications	5 cr	4. period	English	contact teaching	--
Mathematics and Statistics	MAST32004	Advanced Bayesian inference	5 cr	4. period	English	contact teaching	--
Mathematics and Statistics	MAST30301	Algebra Ila	5 cr	1. period	English	contact teaching	--
Mathematics and Statistics	MAST30302	Algebra I Ib	5 cr	2. period	English	contact teaching	--
Mathematics and Statistics	MAST31402	Bayesian inversion	5 cr	4. period	English	contact teaching	--
Mathematics and Statistics	MAST30156	Bifurcation theory (independent project)	5 cr	entire year	English	exam at a time agreed with teacher	--
Mathematics and Statistics	MAST30154	Career seminar in insurance mathematics	5 cr	3.-4. period	English	contact teaching	--
Mathematics and Statistics	MAST30155	Case studies in insurance mathematics	5 cr	entire year	English	exam at a time agreed with teacher	--
Mathematics and Statistics	MAST30155	Case studies in insurance mathematics	5 cr	1.-2. period	English	contact teaching	--
Mathematics and Statistics	MAST30157	Case studies in mathematics and statistics	5 cr	1.-2. period	English	contact teaching	--
Mathematics and Statistics	MAST30152	Complex analysis II	5 cr	4. period	English	contact teaching	--
Mathematics and Statistics	MAST30146	Computational methods I	5 cr	3. period	English	contact teaching	--
Mathematics and Statistics	MAST32001	Computational statistics	5 cr	1. period	English	contact teaching	--
Mathematics and Statistics	MAST31807	Financial economics I	5 cr	1. period	English	contact teaching	--
Mathematics and Statistics	MAST31808	Financial economics II	5 cr	2. period	English	contact teaching	--
Mathematics and Statistics	MAST30213	Finite model theory I	5 cr	1. period	English	contact teaching	--
Mathematics and Statistics	MAST30214	Finite model theory II	5 cr	2. period	English	contact teaching	--
Mathematics and Statistics	MAST30129	Fourier analysis and distributions	5 cr	3. period	English	contact teaching	--
Mathematics and Statistics	MAST30170	Functional analysis I	5 cr	1. period	English	contact teaching	--
Mathematics and Statistics	MAST30171	Functional analysis II	5 cr	2. period	English	contact teaching	--
Mathematics and Statistics	MAST31014	Harmonic analysis I	5 cr	3. period	English	contact teaching	--
Mathematics and Statistics	MAST31901	History of mathematics	5 cr	3.-4. period	English	contact teaching	--
Mathematics and Statistics	MAST32015	History of statistics	5 cr	1.-4. period	English	online teaching (not time-bound)	--
Mathematics and Statistics	MAST30309	Introduction to differential geometry	5 cr	3. period	English	contact teaching	--
Mathematics and Statistics	MAST33023	Introduction to dimension reduction	5 cr	3. period	English	including both contact and distance teaching	--
Mathematics and Statistics	MAST30174	Introduction to Fourier analysis	5 cr	2. period	English	contact teaching	--
Mathematics and Statistics	MAST30130	Introduction to mathematical physics A	5 cr	3. period	English	contact teaching	--
Mathematics and Statistics	MAST30131	Introduction to mathematical physics B	5 cr	4. period	English	contact teaching	--
Mathematics and Statistics	MAST30310	Introduction to Riemannian geometry	5 cr	4. period	English	contact teaching	--
Mathematics and Statistics	MAST31401	Inverse problems I: convolution and deconvolution	5 cr	1. period	English	contact teaching	--
Mathematics and Statistics	MAST31406	Inverse problems II: tomography and regularization	5 cr	2. period	English	contact teaching	--
Mathematics and Statistics	MAST31405	Inverse problems project work	5 cr	3.-4. period	English	contact teaching	--
Mathematics and Statistics	MAST31911	Life insurance mathematics I	5 cr	3. period	English	contact teaching	--
Mathematics and Statistics	MAST31912	Life insurance mathematics II	5 cr	4. period	English	contact teaching	--
Mathematics and Statistics	MAST32018	Mathematical and statistical theory of causality	5 cr	an intensive period	English	contact teaching	--
Mathematics and Statistics	MAST31801	Mathematical finance I	5 cr	3. period	English	contact teaching	--
Mathematics and Statistics	MAST31805	Mathematical finance II	5 cr	4. period	English	contact teaching	--
Mathematics and Statistics	MAST30201	Mathematical logic I	5 cr	1. period	English	contact teaching	--
Mathematics and Statistics	MAST30202	Mathematical logic II	5 cr	2. period	English	contact teaching	--
Mathematics and Statistics	MAST30101	Measure and integral	5 cr	1. period	English	contact teaching	--
Mathematics and Statistics	MAST31051	Measure, probability, and real analysis	5 cr	2. period	English	contact teaching	--
Mathematics and Statistics	MAST30211	Model theory I	5 cr	3. period	English	contact teaching	--
Mathematics and Statistics	MAST30212	Model theory II	5 cr	4. period	English	contact teaching	--
Mathematics and Statistics	MAST33021	Multivariate statistical analysis	5 cr	2. period	English	contact teaching	--
Mathematics and Statistics	MAST32017	Nonparametric inference	5 cr	2. period	English	contact teaching	--
Mathematics and Statistics	MAST30172	Partial differential equations I	5 cr	3. period	English	contact teaching	--
Mathematics and Statistics	MAST30173	Partial differential equations II	5 cr	4. period	English	contact teaching	--
Mathematics and Statistics	MAST31052	Probability theory	5 cr	3. period	English	contact teaching	--
Mathematics and Statistics	MAST30149	Real analysis IIA	5 cr	3. period	English	contact teaching	--
Mathematics and Statistics	MAST33004	Robust regression	5 cr	4. period	English	contact teaching	--
Mathematics and Statistics	MAST31016	Sobolev spaces	10 cr	2. period	English	contact teaching	--
Mathematics and Statistics	MAST31513	Spatial models in ecology I: partial differential	5 cr	3. period	English	contact teaching	--
Mathematics and Statistics	MAST31514	Spatial models in ecology II: discrete space	5 cr	4. period	English	contact teaching	--
Mathematics and Statistics	MAST30165	Statistical decision theory	5 cr	3. period	English	contact teaching	--
Mathematics and Statistics	MAST31706	Stochastic analysis I	5 cr	1. period	English	contact teaching	--
Mathematics and Statistics	MAST31710	Stochastic analysis II	5 cr	2. period	English	contact teaching	--
Mathematics and Statistics	MAST30166	Stochastic population models I	5 cr	3. period	English	contact teaching	--

Mathematics and Statistics	MAST30167	Stochastic population models II	5 cr	4. period	English	contact teaching	–
Mathematics and Statistics	MAST32020	Stochastic processes	5 cr	1. period	English	contact teaching	–
Mathematics and Statistics	MAST32007	Time series analysis I	5 cr	2. period	English	contact teaching	–
Mathematics and Statistics	MAST32008	Time series analysis II	5 cr	3. period	English	contact teaching	–
Mathematics and Statistics	MAST30303	Topology Ila	5 cr	1. period	English	contact teaching	–
Mathematics and Statistics	MAST30304	Topology I Ib	5 cr	2. period	English	contact teaching	–
Meteorology, Atmospheric and Clim	ATM-202630-04	Project management	5 cr	1. period	English	contact teaching	–
Meteorology, Atmospheric and Clim	ATM301	Atmospheric and Earth Sciences Today	5 cr	1. period	English	contact teaching	–
Meteorology, Atmospheric and Clim	ATM302	Climate.now (5 cr version)	5 cr	2. period	English	distance teaching (time-bound)	–
Meteorology, Atmospheric and Clim	ATM303	Project course in atmospheric sciences	3 or 5 cr	1.-4. period	English	Independent study, no teaching	–
Meteorology, Atmospheric and Clim	ATM304	Aerosol Physics II	5 cr	2. period	English	contact teaching	–
Meteorology, Atmospheric and Clim	ATM306	Basics of atmospheric chemistry	5 cr	2. period	English	contact teaching	–
Meteorology, Atmospheric and Clim	ATM310	Time Series Analysis in Geosciences	5 cr	2.-3. period	English	blended teaching	–
Meteorology, Atmospheric and Clim	ATM315	Numerical solution of shallow water equations	5 cr	3. period	English	contact teaching	–
Meteorology, Atmospheric and Clim	ATM316	Fusion of observations with numerical models	5 cr	4. period	English	contact teaching	–
Meteorology, Atmospheric and Clim	ATM317	Hands-on weather and climate modelling	5 cr	3.-4. period	English	contact teaching	–
Meteorology, Atmospheric and Clim	ATM318	Aerosol measurement techniques	5 cr	2. period	English	contact teaching	–
Meteorology, Atmospheric and Clim	ATM320	Mass Spectrometry in Atmospheric Sciences and Environmental analysis	5 cr	3.-4. period	English	contact teaching	–
Meteorology, Atmospheric and Clim	ATM322	Meteorological observation systems	5 cr	2. period	English	contact teaching	–
Meteorology, Atmospheric and Clim	ATM327	Fine Particles in Occupational Environments	5 cr	3. period	English	distance teaching (time-bound)	–
Meteorology, Atmospheric and Clim	ATM331	Theory of Micrometeorological Flux Measurements	5 cr	3. period	English	contact teaching	–
Meteorology, Atmospheric and Clim	ATM333	Turbulence Theory	5 cr	3. period	English	contact teaching	–
Meteorology, Atmospheric and Clim	ATM334	Measurement Methods in Hydrospheric Geophysics	5 cr	1. period	English	contact teaching	–
Meteorology, Atmospheric and Clim	ATM335	Geophysics of Snow and Ice	5 cr	3. period	English	contact teaching	–
Meteorology, Atmospheric and Clim	ATM339	Oceanography of the Baltic Sea	5 cr	2. period	English	contact teaching	–
Meteorology, Atmospheric and Clim	ATM341	Polar Oceans and Ice	5 cr	4. period	English	contact teaching	–
Meteorology, Atmospheric and Clim	ATM343	Glaciology	5 cr	4. period	English	contact teaching	–
Meteorology, Atmospheric and Clim	ATM347	Boundary Layer Physics I	5 cr	4. period	English	contact teaching	–
Meteorology, Atmospheric and Clim	ATM348	Dynamics of Atmospheric Flow Structures I	5 cr	1. period	English	contact teaching	–
Meteorology, Atmospheric and Clim	ATM349	Dynamics of Atmospheric Flow Structures II	5 cr	2. period	English	contact teaching	–
Meteorology, Atmospheric and Clim	ATM351	Mesometeorology	5 cr	3. period	English	contact teaching	–
Meteorology, Atmospheric and Clim	ATM352	Synoptic Meteorology I	5 cr	2. period	English	contact teaching	–
Meteorology, Atmospheric and Clim	ATM353	Synoptic Meteorology II	5 cr	3. period	English	contact teaching	–
Meteorology, Atmospheric and Clim	ATM354	Cloud Physics	5 cr	2. period	English	contact teaching	–
Meteorology, Atmospheric and Clim	ATM355	Atmospheric General Circulation	5 cr	3. period	English	contact teaching	–
Meteorology, Atmospheric and Clim	ATM357	Atmospheric Radiation	5 cr	1. period	English	contact teaching	–
Meteorology, Atmospheric and Clim	ATM358	Atmospheric photochemistry and reaction kinetics	5 cr	4. period	English	contact teaching	–
Meteorology, Atmospheric and Clim	ATM362	Stratospheric Dynamics and Chemistry	5 cr	4. period	English	contact teaching	–
Meteorology, Atmospheric and Clim	ATM364	Laboratory Course in Synoptic Meteorology	5 cr	4. period	English	contact teaching	–
Meteorology, Atmospheric and Clim	ATM372	Atmosphere of planets from our solar system and beyond	5 cr	4. period	English	contact teaching	–
Meteorology, Atmospheric and Clim	ATM373	Leadership for Sustainable Change	5 cr	3. period	English	distance teaching (time-bound)	–
Meteorology, Atmospheric and Clim	ATM378	Sustainable.now	5 cr	1. period	English	distance teaching (time-bound)	–
Meteorology, Atmospheric and Clim	ATM379	SystemsChange.now	5 cr	3. period	English	distance teaching (time-bound)	–
Meteorology, Atmospheric and Clim	ATM380	Solutions.now	5 cr	4. period	English	distance teaching (time-bound)	–
Meteorology, Atmospheric and Clim	ATM382	ClimateComms.now	5 cr	3. period	English	distance teaching (time-bound)	–
Meteorology, Atmospheric and Clim	ATM383	Leadership for sustainable change	2 cr	all year round	English	no lecturing, independent studying	–
Meteorology, Atmospheric and Clim	ATM385	Introduction to sustainability	3 cr	all year round	English	no lecturing, independent studying	–
Meteorology, Atmospheric and Clim	ATM386	Climate.now (2 cr version)	2 cr	all year round	English	Independent study, no teaching	–
Meteorology, Atmospheric and Clim	ATM387	Political economy of Sustainability	2 cr	all year round	English	no lecturing, independent studying	–
Meteorology, Atmospheric and Clim	ATM388	Sustainability and the Arts	1 cr	all year round	English	no lecturing, independent studying	–
Meteorology, Atmospheric and Clim	ATM389	Living with changing climate	5 cr	2. period	English	distance teaching (time-bound)	–
Meteorology, Atmospheric and Clim	ATM395	Predictability of weather and ensemble forecasting	5 cr	Independent study	English	independent studying	–
Meteorology, Atmospheric and Clim	ATM397	Forests and Climate Change	2 cr	1.-4. period	English	online teaching (not time-bound)	–
Meteorology, Atmospheric and Clim	ATM404	Environmental and Climate Regulation in the EU	5 cr	3. period	English	Includes both contact and distance teaching	–
Meteorology, Atmospheric and Clim	ATM405	Una Europa Virtual Exchanges for Sustainability (UnaVex)	1 cr	10-19.11.2026	English	distance teaching (time-bound)	–
Meteorology, Atmospheric and Clim	ATM405	Una Europa Virtual Exchanges for Sustainability (UnaVex)	1 cr	24.11.-2.12.2026	English	distance teaching (time-bound)	–
Meteorology, Atmospheric and Clim	ATM406	Sustainability: Social Sciences in the Face of the Anthropocene	2 cr	all year round	English	no lecturing, independent studying	–

Meteorology, Atmospheric and Clim ATM5001	Statistical Analysis of Environmental Field Measurements	5 cr	1. period	English	contact teaching	–
Particle Physics and Astrophysical S PAP302	Open problems in modern astrophysics	5 cr	1.-2. period	English	contact teaching	–
Particle Physics and Astrophysical S PAP303	Statistical Inverse Methods	5 cr	3.-4. period	English	contact teaching	–
Particle Physics and Astrophysical S PAP304	Plasma Physics	5 cr	1. period	English	contact teaching	–
Particle Physics and Astrophysical S PAP305	Space Applications of Plasma Physics	5 cr	2. period	English	contact teaching	–
Particle Physics and Astrophysical S PAP306	Advanced Course in Observational Astronomy I	5 cr	1.-2. period	English	blended teaching	–
Particle Physics and Astrophysical S PAP308	Special Course in Observational Astronomy	5 cr	1.-2. period	English	blended teaching	–
Particle Physics and Astrophysical S PAP313	Variable Stars	5 cr	1.-2. period	English	contact teaching	–
Particle Physics and Astrophysical S PAP315	Computational light scattering	5 cr	1. period	English	contact teaching	–
Particle Physics and Astrophysical S PAP316	Astrophysical light scattering problems	5 cr	4. period	English	contact teaching	–
Particle Physics and Astrophysical S PAP317	Galactic dynamics	5 cr	3.-4. period	English	contact teaching	–
Particle Physics and Astrophysical S PAP318	Galaxy formation and evolution	5 cr	1.-2. period	English	contact teaching	–
Particle Physics and Astrophysical S PAP319	High Energy Astrophysics	5 cr	3.-4. period	English	contact teaching	–
Particle Physics and Astrophysical S PAP321	Solar Physics	5 cr	3. period	English	contact teaching	–
Particle Physics and Astrophysical S PAP324	Numerical Space Physics	5 cr	4. period	English	contact teaching	–
Particle Physics and Astrophysical S PAP325	Introduction to Particle Physics II	5 cr	2. period	English	contact teaching	–
Particle Physics and Astrophysical S PAP326	Cosmology II	5 cr	2. period	English	contact teaching	–
Particle Physics and Astrophysical S PAP328	Laboratory course on instrumentation	5 cr	1.-2. period	English	contact teaching	–
Particle Physics and Astrophysical S PAP329	Particle Physics Experiments	5 cr	3.-4. period	English	contact teaching	–
Particle Physics and Astrophysical S PAP331	Computing Methods in High Energy Physics	5 cr	3.-4. period	English	contact teaching	–
Particle Physics and Astrophysical S PAP332	Introduction to Particle Physics I	5 cr	1. period	English	contact teaching	–
Particle Physics and Astrophysical S PAP334	Statistical Methods	5 cr	1.-2. period	English	contact teaching	–
Particle Physics and Astrophysical S PAP346	Path Integral Quantization of Gauge Field Theories	5 cr	4. period	English	contact teaching	–
Particle Physics and Astrophysical S PAP348	General relativity I	5 cr	3. period	English	contact teaching	–
Particle Physics and Astrophysical S PAP349	General relativity II	5 cr	4. period	English	contact teaching	–
Particle Physics and Astrophysical S PAP352	Galaxy Survey Cosmology	5 cr	3. period	English	contact teaching	–
Particle Physics and Astrophysical S PAP353	Gravitational Lensing	5 cr	4. period	English	contact teaching	–
Particle Physics and Astrophysical S PAP354	Space and Astrophysical Plasma Turbulence	5 cr	2. period	English	contact teaching	–
Particle Physics and Astrophysical S PAP355	Simulation of experimental Particle Physics Detectors	5 cr	3.-4. period	English	contact teaching	–
Particle Physics and Astrophysical S PAP-202630-01	Radiation measurement and detection	5 cr	1-2. period	English	contact teaching	Degree students prioritized
Theoretical and Computational MetI TCM302	Quantum Mechanics IIa	5 cr	3. period	English	blended teaching	–
Theoretical and Computational MetI TCM303	Quantum Mechanics IIb	5 cr	4. period	English	blended teaching	–
Theoretical and Computational MetI TCM304	Mathematical Methods of Physics IIIa	5 cr	1. period	English	blended teaching	–
Theoretical and Computational MetI TCM305	Mathematical Methods of Physics IIIb	5 cr	2. period	English	blended teaching	–
Theoretical and Computational MetI TCM308	Lattice field theory	5 cr	3. period	English	blended teaching	–
Theoretical and Computational MetI TCM313	Thermal field theory	5 cr	4. period	English	contact teaching	–
Theoretical and Computational MetI TCM314	String theory A	5 cr	3. period	English	contact teaching	–
Theoretical and Computational MetI TCM322	Quantum Computing and Quantum Information A	5 cr	1. period	English	contact teaching	–
Theoretical and Computational MetI TCM323	Quantum Computing and Quantum Information B	5 cr	2. period	English	contact teaching	–
Theoretical and Computational MetI TCM324	QM and hybrid QM/MM modeling of bio/chemical systems	5 cr	2. period	English	contact teaching	–
Theoretical and Computational MetI TCM327	Quantum Field Theory I	5 cr	1. period	English	blended teaching	–
Theoretical and Computational MetI TCM328	Quantum Field Theory II	5 cr	2. period	English	blended teaching	–
Theoretical and Computational MetI TCM329	Quantum Field Theory III	5 cr	3. period	English	blended teaching	–
Theoretical and Computational MetI TCM332	Quantum Field Theory IV	5 cr	4. period	English	blended teaching or self-study (TBA)	–
Theoretical and Computational MetI TCM333	Open Quantum Systems I	5 cr	1. period	English	blended teaching	–
Theoretical and Computational MetI TCM334	Open Quantum Systems II	5 cr	2. period	English	blended teaching	–
Theoretical and Computational MetI TCM335	Open Classical Systems I	5 cr	1. period	English	blended teaching	–
Theoretical and Computational MetI TCM336	Open Classical Systems II	5 cr	2. period	English	blended teaching	–
Theoretical and Computational MetI TCM337	String theory B	5 cr	4. period	English	blended teaching	–
Urban Studies and Planning USP-301-1	Introduction to urban studies and planning: key approaches	5 cr	1. period	English	contact teaching	Only for programme's own exchange students
Urban Studies and Planning USP-301-2	Introduction to urban studies and planning: field course	5 cr	2. period	English	both contact and distance teaching	Only for programme's own exchange students
Urban Studies and Planning USP-302	Research methods	5 cr	1.-2. period	English	contact teaching	Only for programme's own exchange students
Urban Studies and Planning USP-303	Urban GIS	5 cr	1.-2. period	English	contact teaching	Only for programme's own exchange students
Urban Studies and Planning USP-321	Urban social studies	5 cr	4. period	English	contact teaching	Only for programme's own exchange students
Urban Studies and Planning USP-322	Urban and planning history	5 cr	1.8.2026-31.7.2027	English	Examinarium exam	Only for programme's own exchange students
Urban Studies and Planning USP-401	Urban Heritages	5 cr	2. period	English	contact teaching	Only for programme's own exchange students
Urban Studies and Planning USP-407	Urban reading club	5 cr	3. period	English	contact teaching	Only for programme's own exchange students

Urban Studies and Planning	–	Courses from Aalto university	–	Aalto period	–	–	–
Urban Studies and Planning	USP-E0501	Urban challenge studio	12 cr	3.-4. period	English	contact teaching	Only for programme's own exchange students
Urban Studies and Planning	ARK-L5003	Planning theory	6 cr	2. period	English	contact teaching	Only for programme's own exchange students
Urban Studies and Planning	ARK-E1020	Capstone project	12 cr	1.-2. period	English	contact teaching	Only for programme's own exchange students
Urban Studies and Planning	REC-E3500	Urban economics	6 cr	3. period	English	contact teaching	Only for programme's own exchange students
Urban Studies and Planning	REC-E4700	Ympäristöoikeus	6 cr	1.-5. period	Finnish	contact teaching	Only for programme's own exchange students
Urban Studies and Planning	SPT-E3010	Participatory planning	5 cr	4. period	English	contact teaching	Only for programme's own exchange students
Urban Studies and Planning	SPT-E5010	Urban and regional development	5 cr	5. period	English	contact teaching	Only for programme's own exchange students
Urban Studies and Planning	SPT-E5020	Urban experience	5 cr	3. period	English	contact teaching	Only for programme's own exchange students