

Area	Number	Name	Teacher	Type	CP	part of these programs
Math	63982-01&2	A Practical Introduction to Data Science	Marcel Lüthi	Lecture+Exercise	4	BSc Math, BSc Phys, MSc Math, MSc Phys, other degrees
Math	17165-01&2	Machine Learning	Volker Roth	Lecture+Exercise	8	MSc CBB, MSc Comp Sci, MSc Data Sci, PhD Informatik
Math	17164-01&2	High Performance Computing	Florina M. Ciorba	Lecture	4	MSc CBB, MSc Comp Sci, MSc Data Sci, PhD Informatik
Math	67923-01&2	Continuous Optimization	Aurelien Lucchi	Lecture	6	MSc Comp Sci, MSc Data Sci, PhD
Math	66937-01	Foundations of Deep Learning	Aurelien Lucchi	Lecture+Exercise	6	MSc Comp Sci, MSc Data Sci, PhD
Math	57241-01&2	Fundamentals of Causal Inference	Giusi Moffa	Lecture	6	BSc Math, BSc Comp Sci, MSc Dat Sci
Math	55769-01&2	Statistical Modelling	Giusi Moffa	Lecture	6	BSc Math, BSc Comp Sci, MSc Dat Sci
Math	71046-01	Kinetic Theory	Nikolai Leopold	Lecture	2	BSc Math, MSc Dat Sci
Math	60876-01	Mathematical and Computational Biology in Drug Discovery	Jitao David Zhang	Lecture	2	BSc Math, BSc Comp Sci, MSc Dat Sci
Math	71226-01	Topics in Optimal Transport Theory	Chiara Saffirio	Seminar	3	BSc Math, MSc Dat Sci
Math	56704-01&2	Introduction to mathematical fluid dynamics II	Gianluca Crippa	Lect	8	MSc Math
Math	55466-01&2	Introduction to mathematical fluid dynamics I	Gianluca Crippa	Lect	8	MSc Math
Math	12246-01	Numerical Methods for Partial Differential Equations	Marcus J. Grote	Lecture	8	MSc Math, MSc Dat Sci
Math	10907-01&2/3	Pattern Recognition	Ivan Dokmanić	Lecture	8	BSc Comp Sci, BSc Physics, MSc Physics
Physics	12302-01	Introduction to Bayesian Statistics	Kai Hencken	Lecture	2	MSc Physics, MSc Nano
Physics	24346-01	Surface Physics	Thilo Glatzel, Thomas Jung, Bert Müller, Cinthia Piamonteze, Andriy Romanyuk	Lecture+Exercise	4	MSc Physics, MSc Nano
Physics	47188-01	Quantum Optics: light-matter interactions	Patrick Maletinsky	Lecture+Exercise	4	MSc Physics, MSc Nano
Physics	28346-01	Quantum Optics: quantum states of light	Philipp Treutlein, Richard Warburton	Lecture+Exercise	4	MSc Physics, MSc Nano
Physics	12303-01	Electronic structure and atomistic simulations	Stefan Goedecker	Lecture+Exercise	4	MSc Physics, MSc Nano, BSc Chem, BSc Comp Sci
Physics	11028-01	Statistische Physik und ihre Anwendungen in Chemie, Biologie und Physik	Martino Poggio	Lecture	4	BSc Nano, BSc Physics, 5./6. Semester
Physics	11029-01	Statistische Physik und ihre Anwendungen in Chemie, Biologie und Physik	Martino Poggio	Exercise	2	BSc Nano, BSc Physics, 5./6. Semester

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Physics	19300-01	Random processes: Theory and applications from physics to finance	Jörg Lehmann	Lecture+Exercise	4	MSc Physics, MSc Nano, MSc CBB, MSc Dat Sci
Physics	20901-01	Quantum Computation and Error Correction	James Wootton	Lecture+Exercise	4	MSc Physics, MSc Nano, MSc Comp Sci, BSc Comp Sci
Physics	11680-01	Computational Physics	Stefan Goedecker	Lecture	4	MSc Physics, MSc Nano, MSc Comp Sci, BSc Comp Sci
Physics	11681-01	Computational Physics	Stefan Goedecker	Practical	2	MSc Physics, MSc Nano, MSc Comp Sci, BSc Comp Sci
Physics	22638-01	Monte Carlo Methods in Physics	Kai Hencken	Lecture	4	MSc Physics, MSc Nano
Physics	22638-02	Monte Carlo Methods in Physics	Kai Hencken	Exercise	4	MSc Physics, MSc Nano
Physics	22774-01	Introduction to Nanomechanics	Martino Poggio	Lecture+Exercise	4	MSc Physics, MSc Nano
Physics	59839-01	Measurement, Control & Acquisition	Martino Poggio	Practical	3	MSc Physics
Physics		Qualitative Methods in Theoretical Physics	Pierre Fromholz, Jelena Klinovaja	Lecture+Exercise	4	MSc Physics, MSc Nano
SwissTPH	12385-01	Bayesian Biostatistics	Penelope Vounatsou	Lecture	5	MSc Infect Bio, MSc Epidemiology
SwissTPH	28887-01	Statistical modelling	Penelope Vounatsou	Lecture+Exercise	6	MSc Epidemiology
SwissTPH	28893-01	Biostatistics	Jan Hattendorf, Dirk Keidel, Amanda Ross	Lecture+Exercise	3	MSc Infect Bio, MSc Epidemiology, PhD
SwissTPH	28873-01	Mathematical Modelling of Infectious Diseases	Nakul Chitnis	Lecture+Exercise	2	MSc Infect Bio, MSc Epidemiology
SwissTPH	48616-01	Scientific writing	Hendrina Paola	Lecture+Exercise	2	MSc Infect Bio, MSc Epidemiology, PhD
SwissTPH	28880-01	Introduction to Bioinformatics	Daniela Brites, Pascal Mäser	Lecture	2	MSc Infect Bio, PhD
SwissTPH	58921-01	Basic Statistical Modelling	Silvia Cicconi, Fiona Vanobberghen	Lecture+Exercise	2	MSc Epidemiology
Chem	27412-01	Chemical biology	Alexander Thomas, Hagen Flohr, Dennis Gillingham	Lecture	3	MSc Chemistry, MSc Nano, PhD Chem
Chem	67276-01	Advanced Molecular Spectroscopy	Malte Oppermann	Lecture	3	MSc Chemistry, MSc Nano, MSc Physics, PhD Chem
Chem	25637-01	Molecular Simulations with Chemical and Biological Applications	Markus Meuwly	Lecture	3	BSc Comp Sci, MSc Dat Sci, MSc Chem, MSc Nano
Chem	19302-01	Synthesis and physical properties of nanoscale systems	Marcel Mayor	Lecture	3	MSc Chemistry, MSc Nano, PhD Chem

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Chem	21525-01	Introduction to NMR spectroscopy of proteins and other biomolecules	Daniel Häussinger	Lecture	3	MSc Chemistry, MSc Nano, PhD Chem
Chem	32826-01	Photophysics and Photochemistry	Oliver Wenger	Lecture	3	MSc Chemistry, MSc Nano, PhD Chem
Chem	48566-01	Soft matter and polymers	Cornelia Palivan	Lecture	3	MSc Chemistry, MSc Nano, PhD Chem
Chem	58301-01	Metals in Biology	Thomas R. Ward	Lecture	3	MSc Chemistry, MSc Nano, PhD Chem
Pharma	28941-01	Biostatistics and Experiment Planning	Gonzalo Duran-Pacheco	Lecture	2	MSc Drugs, MSc Pharm, MSc Nano
Pharma	46377-01	Molecular Modeling in Drug Design	Markus A. Lill	Lecture	2	MSc Drugs, MSc Pharm, MSc Nano
BioMedEng	28420-01	Principles of Medical Imaging	Oliver Bieri, Philippe Claude Cattin	Lecture	3	MSc Comp Sci, MSc Biomed Eng, MSc Data Sci, MSc Nano
BioMedEng	53822-01	Advanced Methods in Medical Image Analysis	Florentin Bieder, Philippe Claude Cattin, Julia Wolleb	Lecture	3	MSc Dat Sci, MSc Biomed Eng, MSc Nano
BioMedEng	48186-01	Laser and Optics in Medicine	Ferda Canbaz, Arsham Hamidi	Lecture	3	MSc Biomed Eng, MSc Nano
Biozentrum	27247-01	Computational Biology II: Sequence Modeling and Analysis	Mihaela Zavolan	Lecture	4	MSc Molbio, BSc Comp Sci
Biozentrum	27247-02	Computational Biology II: Sequence Modeling and Analysis	Mihaela Zavolan	Exercise	4	MSc Molbio, BSc Comp Sci
Biozentrum	45249-01	Introduction to Python Programming for Structural & Quantitative Biology and Image Processing	Timm Maier, Michael Podvinec, Adam Mazur	Lecture+Exercise	1	MSc Molbio, MSc Nano, MSc CBB, PhD
Biozentrum	43513-01	Programming for Life Sciences	Alexander Kanitz, Mihaela Zavolan	Practical	4	MSc Molbio, MSc Nano, MSc CBB, PhD
DBM/BZ	48662-01	Introduction to R	Robert Ivanek et al	Lecture+Exercise	2	MSc Molbio, MSc Nano, PhD
DBM/BZ	45038-01	Analysis of Genomics Data with R/Bioconductor	Robert Ivanek	Lecture+Exercise	2	MSc Molbio, PhD
DUW	49935-01	Applied Statistics Using R	Thomas Fabbro	Lecture+Practical	1	MSc Molbio, PhD
Biozentrum	70836-01	Neurotheory: Introduction to Theoretical and Computational Neuroscience	Everton Joao Agnes	Vorlesung mit Übungen	2	MSc Molbio, PhD
DUW	25600-01	Evolutionary Genetics	Julia Barth, Walter Salzburger, Jean-Claude Walser	Lecture+Exercise	4	MSc CBB, MSc Bio Tiere, MSc Ecology, PHD
Biozentrum	14467-01	Developmental Neuroscience	Silvia Arber, Filippo Rijli	Lecture	2	MSc Molbio, MSc Nano, MSc CBB, PhD
Biozentrum	13186-01	Frontiers in RNA Biology	Marc Bühler, Helge Grosshans	Lecture	2	MSc Molbio, MSc Nano, PhD

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Biozentrum	13166-01	Molecular Mechanisms of Development	Markus Affolter, Urs Jenal, Alexander Schier, Anne Spang, Rolf Zeller	Lecture	2	MSc Molbio, MSc Nano, MSc CBB, PhD
Humanities	64323-01	Applied Programming Projects	Lukas Rosenthaler	Seminar	3	MSc Dat Sci, MSc humanities