

Tentative list of course offerings at IST Austria in 2019/20

Note: List subject to changes. Further course offerings will be added

title	track(s)	segments proposed	instructors	(half) semester proposed	ECTS	classification proposed	recurrence	last taught in
Introduction to Evolutionary Biology	BIO	BIO-EVO	Cremer, Vicoso	Fall	3	introductory	annually	2108/19
Introduction to Developmental Biology	BIO	BIO-CELL	Kicheva, Heisenberg	Fall	3	introductory	bi-annually	2017/18
Bioinformatics I	BIO, DSSC	BIO-QUANT, DS-QUANT	Vicoso	Spring	3	advanced	annually	2018/19
Bioinformatics II (tbd)	BIO, DSSC	BIO-QUANT, DS-QUANT	Vicoso	Spring	3	advanced	tbd	2018/19
Population Genetics	BIO	BIO-EVO	Barton	Spring	3	tbd	bi-annually	n.a.
Biophotonics	BIO/NEU/PHY	tbd	Danzl	Fall/ Spring1	3	advanced	annually	2018/19
Synthetic and Systems Biology	BIO	BIO-SYS	Kicheva, Guet, Loose	Spring	3	advanced	annually	2018/19
Deep Learning with Tensorflow - if not offered in 2018/19	CS/ DSSC	DSSC-NUM, CS-AI, DSSC-OPT	Lampert	Fall	3	advanced	bi-annually	2017/18
Formal Methods	CS	CS-PL	Chatterjee	Spring	3	tbd	bi-annually	2017/18
Advanced techniques in life science – Manipulation of gene expression level	NEU, BIO	NEU-MOL, NEU-QUANT, BIO-QUANT	Siegert	Fall?	3	advanced	bi-annually	2017/17
Math for LS: Differential Equations	BIO, NEU	BIO-QUANT; NEU-QUANT	Merrin	Fall 1 or 2 (tbd)	3	introductory	bi-annually	2017/18
Math for LS: Probability and Statistical Inference	BIO/NEU	BIO-QUANT; NEU-QUANT	Maas??	Fall	3	introductory	bi-annually	2017/18
Math for LS: Linear Algebra	BIO/NEU	BIO-QUANT; NEU-QUANT	Nejjar???	Fall	3	introductory	annually	2018/19
Developmental Neuroscience and Brain Diseases	NEU	NEU-DEV, NEU-MOL, NEU-TRAN	Hippenmeyer, Novarino	Fall 1+2	6	introductory	annually	2018/19
Math for Life Scientists: Linear Algebra	BIO/NEU	BIO-QUANT; NEU-QUANT	tbd	Fall 1 or 2 (tbd)	3	introductory	annually	2018/19
Virus-mediated neuronal tracing and optogenetics	NEU	NEU-MOL, NEU-QUANT	Shigemoto	Spring 1 (tbd)	3	advanced	annually	2018/19
Biophotonics/High-Resolution Fluorescence Imaging	BIO/NEU/ PHY	tbd	Danzl	Before Spring 2 (tbd)	3	Advanced	annually	2018/19
The physics of quantum dots: from basic research to quantum bits	PHY	PHY-CON	Katsaros	Fall 1+2	6	advanced	annually	2018/19
Microwave Quantum Circuits	PHY	tbd	Fink	Spring 1	3	advanced	annually	2018/19
Methods of Data Analysis (I or II, depending on 2018/19 offering)	DSSC / PHY	DSSC-DA	Tkacik	Spring 2	3	advanced	annually	
Probabilistic Graphical Models	DSSC/CS	CS-AI; DSSC-PROB	Lampert	tbd	3	advanced	tbd	2018/19
Data Clinic course	DSSC	tbd	Tkacik	tbd	3	advanced	tbd	n.a.
The Stability of Matter in Quantum Mechanics	PHY / MAT	MAT-ANA; PHY-MAT	Seiringer	tbd	3	advanced	annually	2018/19
Practical Introduction to Work in a Wet Lab	OTH	n.a.	Kondrashov	pre-semester Fall	0	service	tbd	tbd