

Core Course

Recommended Elective Course

Biology Course

Monday						
08:00			Physiology and Anatomy for Biomedical Engineers II			
09:00				Neural Systems	Elements of Microscopy	
10:00		Soft and Biohybrid Robotics				
11:00						
12:00						
13:00						
14:00		Finite Element Analysis in Biomedical Engineering	Mobile Health and Activity Monitoring		Biological Methods for Engineers	
15:00	Microsystems II: Devices and Applications	MaP Distinguished Lecture Series on Engineering with Living Materials	Introduction to Robotics and Mechatronics	Orthopaedic Biomechanics		
16:00						Advanced Topics in Control
17:00						
18:00						

Tuesday						
08:00	Rehabilitation Engineering I: Motor Functions			Optics and Photonics		
09:00		Translational Neuromodeling	Nanorobotics			Machine Learning for Health Care
10:00						
11:00						
12:00						
13:00	Neuromorphic Engineering II	Soft and Biohybrid Robotics			Machine Learning for Health Care	
14:00			Lasers in Medicine *		Large-Scale Convex Optimization	Introduction to Machine Learning
15:00						
16:00				Models of Computation		
17:00						
18:00						

Wednesday						
08:00				Cell and Molecular Biology for Engineers		
09:00	Applications of Thermal Modeling: From Hot Atoms to Heated Tissues					
10:00						
11:00						
12:00						
13:00						
14:00		Introduction to Machine Learning	Recursive Estimation			
15:00						
16:00	Orthopaedic Biomechanics					
17:00						
18:00						

Thursday						
08:00						
09:00						
10:00	Nanophotonics: from Fundamentals to Applications	Measuring on the Nanometer Scale	Medical Technology Innovation for Underrepresented Groups	Quantitative Big Imaging: From Images to Statistics	Development Strategies for Medical Implants	
11:00						
12:00						
13:00	Microsystems II: Devices and Applications				Development Strategies for Medical Implants	
14:00		Nanophotonics: from Fundamentals to Applications				Cell and Molecular Biology for Engineers
15:00						
16:00			Nanorobotics			
17:00						
18:00						

Friday						
08:00	Rehabilitation Engineering I: Motor Functions	Principles in Tissue Engineering				
09:00						
10:00	Advanced Topics in Control		Biofluidynamics	Physics Against Cancer: The Physics of Imaging and Treating Cancer	Chemistry of Devices and Technologies	
11:00						
12:00						
13:00						
14:00	Model-Based Estimation and Signal Analysis	Translational Neuromodeling	Physics in Medical Research: From Humans to Cells		Introduction to Machine Learning	Models of Computation
15:00						
16:00						
17:00						
18:00						

Various dates: Computational Psychiatry & Computational Psychosomatics *

June 2024 : Large-Scale Convex Optimization

*: not offered in FS24

Note: This is informal help for students. The official courses can be seen on the Course Catalogue of ETH (www.vvz.ethz.ch)