

Core Course

Recommended Elective Course

Biology Course

Monday						
08:00			Physiology and Anatomy for Biomedical Engineers II			
09:00					Elements of Microscopy	
10:00	Machine Learning for Health Care	Soft and Biohybrid Robotics	Principles in Tissue Engineering	Neural Systems		
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						
16:00	Microsystems II: Devices and Applications	MaP Distinguished Lecture Series on Engineering with Living Materials	Introduction to Robotics and Mechatronics			Advanced Topics in Control
17:00						
18:00						

Tuesday							
08:00			Rehabilitation Engineering I: Motor Functions				
09:00	Medical Technology Innovation for Underrepresented Groups	Translational Neuromodeling		Optics and Photonics	Applications of Thermal Modeling: From Hot Atoms to Heated Tissues	Biomedical Photonics	
10:00			Nanorobotics				
11:00							
12:00					Machine Learning for Health Care		
13:00	Neuromorphic Engineering II	Soft and Biohybrid Robotics					
14:00							
15:00				Lasers in Medicine *		Large-Scale Convex Optimization	Introduction to Machine Learning
16:00							
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				
15:00			Recursive Estimation			
16:00	Orthopaedic Biomechanics					
17:00						
18:00						

Thursday						
08:00						
09:00						
10:00	Nanophotonics: from Fundamentals to Applications			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						
15:00		Nanophotonics: from Fundamentals to Applications				Cell and Molecular Biology for Engineers
16:00			Nanorobotics			
17:00						
18:00						

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

Various dates: Computational Psychiatry & Computational Psychosomatics *

June 2025 : Large-Scale Convex Optimization

*: not offered in FS25

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